

About the fragility of truth in the dialogue between science and society

Ubar, Raimund-Johannes Estonian Academy of Sciences year book = Annales Academiae Scientiarum Estonicae 2017 2018 / p. 58-60 https://www.ester.ee/record=b1874722*est

Accelerating transient fault injection campaigns by using Dynamic HDL Slicing

Bagbaba, Ahmet Cagri; Jenihhin, Maksim; Raik, Jaan; Sauer, Christian 2019 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC), 29-30 October 2019, Helsinki, Finland : proceedings in IEEE Xplore 2019 / 7 p. : ill <https://doi.org/10.1109/NORCHIP.2019.8906932>

Accessible routes : evaluation and implementation of an inclusive indoor navigation app for people with disabilities

Helmer, Daniel; Weil, R.; Hinkelmann, Heiko; Reh, E.; Szilvas, K.; Hollstein, Thomas Gerontechnology 2024 / p. 1 <https://doi.org/10.4017/GT.2024.23.S.988.OPP> [Journal metrics at Scopus](#) [Article at Scopus](#)

Accurate detection of paroxysmal atrial fibrillation with certified-GAN and neural architecture search

Asadi, Mehdi; Poursalim, Fatemeh; Loni, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Gharehbaghi, Arash Scientific Reports 2023 / art. 11378, 16 p. : ill <https://doi.org/10.1038/s41598-023-38541-8>

Active blended learning as a tool focused on industry 5.0 at EuroTeQ Engineering University

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2024 IEEE Global Engineering Education Conference (EDUCON) : proceedings 2024 / p. 1-5 <https://doi.org/10.1109/EDUCON60312.2024.10578688> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Active blended learning engineering students : a case study

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Education Sciences 2022 / art. 344 <https://doi.org/10.3390/educsci12050344> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Active blended learning of industry 5.0-oriented sustainable power engineering specialists

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard First International Conference on Sustainable Energy Education (SEED 2024) : proceedings 2024 / p. 719-725 <https://doi.org/10.4995/SEED2024.2024.19007>

AdAM: Adaptive Approximate Multiplier for Fault Tolerance in DNN Accelerators

Taheri, Mahdi; Cherezova, Natalia; Nazari, Samira; Azarpeyvand, Ali; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim IEEE transactions on device and materials reliability 2024 / p. 66-75 : ill <https://doi.org/10.1109/TDMR.2024.3523386>

AdAM: adaptive fault-tolerant approximate multiplier for edge DNN accelerators

Taheri, Mahdi; Cherezova, Natalia; Nazari, Samira; Rafiq, Ahsan; Azarpeyvand, Ali; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim 2024 IEEE European Test Symposium (ETS): ETS 2024 : May 20-24, 2024, The Hague, Netherlands : proceedings 2024 <https://doi.org/10.1109/ETS61313.2024.10567161> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Adaptive Kalman filter based data aggregation in fault-resilient Underwater Sensor Networks

Vihman, Lauri; Raik, Jaan 2023 24th International Conference on Digital Signal Processing (DSP) 2023 / p. 1-5 <https://doi.org/10.1109/DSP58604.2023.10167982>

ADAssure : debugging methodology for autonomous driving control algorithms

Roberts, Andrew James; Heidari Iman, Mohammad Reza; Bellone, Mauro; Ghasempouri, Tara; Raik, Jaan; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian 2024 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2024 / p. 1-6 <https://doi.org/10.23919/DATE58400.2024.10546519> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Addressing scalability issues in semantics-driven recommender systems

Bendouch, Mounir M.; Frasincar, Flavius; Robal, Tarmo WI-IAT '21: IEEE/WIC/ACM International Conference on Web Intelligence 2021 / p. 56-63 <https://doi.org/10.1145/3486622.3493963> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Adjustable self-healing methodology for accelerated functions in heterogeneous systems

Riazati, Mohammad; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Sjödin, Mikael; Lisper, Björn 2020 23rd Euromicro Conference on Digital System Design (DSD), 26-28 August 2020, Kranj, Slovenia 2020 / p. 638-645 <https://doi.org/10.1109/DSD51259.2020.00104>

Administration of the state information system of the Estonian eGovernment [Electronic resource]

Kalja, Ahto; Robal, Tarmo; Gailan, Triin PICMET '17 : Portland International Conference on Management of Engineering and Technology : Technology Management for the Interconnected World : proceedings 2017 / p. 1-7 : ill. [USB] <https://doi.org/10.23919/PICMET.2017.8125312>

Advanced control of district heating processes in Estonia = Keskkütte soojuse tootmisprotsesside juhtimine

Vansovitš, Vitali 2018 <https://digi.lib.ttu.ee/ii/?10628> https://www.ester.ee/record=b5151484*est

Advanced Hardware Protection Mechanisms : A Study on Logic Locking and Circuit Obfuscation Techniques
[Võrguteavik] = Täiustatud riistvara kaitsemehhanismid : uuring loogikalukustamise ja hägustamise tehnikate kohta
Costa de Almeida, Antonio Felipe 2025 https://www.ester.ee/record=b5752171*est <https://digikogu.taltech.ee/et/Item/9840306f-39a2-4ac7-b275-9a841a75857b> <https://doi.org/10.23658/taltech.42/2025>

Advancing ecohydraulics and ecohydrology by clarifying the role of their component interdisciplines
Gosselin, Marie-Pierre; Ouellet, Valerie; Harby, Atle; Nestler, John Journal of ecohydraulics 2019 / p. 172-187
<https://doi.org/10.1080/24705357.2019.1658137> [Journal metrics at Scopus](#) [Article at Scopus](#)

AI and elections : an introduction to the special issue
Srivastava, Biplav; Nikolich, Anita; Koppel, Tarmo AI Magazine 2023 / p. 216–217 <https://doi.org/10.1002/aaai.12110>

“Al ei mõtle, Al arvutab”. Konverentsil kohtusid tehisaru rakendajad ja entusiastid
Kald, Indrek ituudised.ee 2024 [“Al ei mõtle, Al arvutab”. Konverentsil kohtusid tehisaru rakendajad ja entusiastid](#)

Akadeemik Maarja Kruusmaa : ebakindlus on uus reaalsus
Kruusmaa, Maarja Mente et Manu 2017 / lk. 12-17 : fot http://www.ttu.ee/public/m/mente-et-manu/MM_01_2017/index.html

Algorithm for restructuring of structurally synthesized BDDs
Jürimägi, Lembit; Ubar, Raimund-Johannes 2019 IEEE 31st International Conference on Microelectronics : Niš, Serbia
September 16th-18th, 2019 : proceedings 2019 / p. 239-242 : ill <https://doi.org/10.1109/MIEL.2019.8889578>

Algorithms for online CO2 baseline correction in intermittently occupied rooms
Vihman, Lauri; Parts, Tuule Mall; Aljas, Hans Kristjan; Thalfeldt, Martin; Raik, Jaan Healthy Buildings 2023 Europe: Beyond
Disciplinary Boundaries: proceedings ; 1 2023 / p. 302-309 : ill <https://www.proceedings.com/content/070/070278webtoc.pdf>

American sign language character recognition using convolutional neural networks
Abdullah, Atesam; Ali, Nisar; Ali, Raja Hashim; Abideen, Zain UI; Ijaz, Ali Zeeshan; Bais, Abdul 2023 IEEE Canadian Conference on
Electrical and Computer Engineering (CCECE) : Regina, SK, Canada, 24-27 September 2023 2023 / p. 165-169
<https://doi.org/10.1109/CCECE58730.2023.10288799>

Amfiibrobotid aitavad aimu saada veealusest elust
Traks, Kristina novaator.err.ee 2023 [Amfiibrobotid aitavad aimu saada veealusest elust](#) [Robotid aitavad aimu saada veealusest elust](#)

An Accelerator-based architecture utilizing an efficient memory link for modern computational requirements
Yousefzadeh, Saba; Basharkhah, Katayoon; Raik, Jaan; Jenihhin, Maksim 2019 IEEE East-West Design & Test Symposium
(EWDTS) 2019 / 6 p. : ill <https://doi.org/10.1109/EWDTS.2019.8884481>

An automatic approach to evaluate assertions' quality based on data-mining metrics
Ghasempouri, Tara; Niazmand, Behrad; Raik, Jaan Proceedings 2nd IEEE International Test Conference in Asia : ITC-Asia
2018, 15-17 August 2018, Harbin, China 2018 / p. 61-66 : ill <https://doi.org/10.1109/ITC-Asia.2018.00021>

An enhancement of the driver distraction detection and evaluation method based on computational intelligence algorithms
Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard 2018 IEEE 16th International Conference on Industrial
Informatics (INDIN 2018) : Porto, Portugal, 18-20 July 2018 2018 / p. 201-206 : ill <https://doi.org/10.1109/INDIN.2018.8472045>

An investigation of image processing techniques for substrate classification based on dominant grain size using RGB images from UAV
Arif, Mohammad Shafi M.; Gülch, Eberhard; Tuhtan, Jeffrey Andrew; Thumser, Philipp; Haas, Christian International journal of
remote sensing 2017 / p. 2639-2661 : ill <https://doi.org/10.1080/01431161.2016.1249309> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

An optimization framework for dynamic pipeline management in computing systems
Naqvi, Syed Rameez; Zahid, Anjum; Sawalha, Lina; Jenihhin, Maksim Computers & electrical engineering 2019 / p. 242-258 : ill
<https://doi.org/10.1016/j.compeleceng.2019.07.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An overview of FPGA-inspired obfuscation techniques
Abideen, Zain UI; Gokulanathan, Sumathi; Aljafar, Muayad J.; Pagliarini, Samuel Nascimento ACM computing surveys 2024 /
art. 299, 35 p. : ill <https://doi.org/10.1145/3677118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysing robustness of tiny deep neural networks
Mousavi, Hamid; Zoljodi, Ali; Daneshthalab, Masoud New Trends in Database and Information Systems : ADBIS 2023 Short Papers,
Doctoral Consortium and Workshops : DOING, K-GALS, MADEISD, PeRS, Barcelona, Spain, September 4–7, 2023 : proceedings
2023 / p. 150-159 https://doi.org/10.1007/978-3-031-42941-5_14 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Analysis and improvement of resilience for long short-term memory neural networks

Ahmadilivani, Mohammad Hasan; Raik, Jaan; Daneshtalab, Masoud; Kuusik, Alar 2023 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) 2023 / 4 p <https://doi.org/10.1109/DFT59622.2023.10313559>

Analysis of competency-based learning - 6 years later

Umbleja, Kadri; Kukk, Vello; Jaanus, Martin Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 165-174 : ill <https://doi.org/10.1109/EDUCON.2017.7942843>

Analyzing side-channel attack vulnerabilities at RTL

Lai, Xinhui; Jenihhin, Maksim 2023 IEEE 24th Latin American Test Symposium (LATS) 2023 / 2 p. : ill <https://doi.org/10.1109/LATS58125.2023.10154497>

Anomalous File System Activity detection through Temporal Association rule mining

Reza, M.; Iman, H.; Chikul, Pavel; Jervan, Gert; Bahsi, Hayretidin; Ghasempouri, Tara Proceedings of the 9th International Conference on Information Systems Security and Privacy ICISSP. Vol. 1 2023 / p. 733-740 <https://doi.org/10.5220/0000168400003405>

Apokalüpsise ratsanikega tuleb tegeleda korraga

Kruusmaa, Maarja Postimees 2022 / Lk. 8 [Apokalüpsise ratsanikega tuleb tegeleda korraga](#) [Apokalüpsise ratsanikega tuleb tegeleda korraga](#)

Application of machine learning for assessment of HS code correctness

Spitšakova, Margarita; Haav, Hele-Mai Baltic journal of modern computing 2020 / p. 698-718 <https://doi.org/10.22364/bjmc.2020.8.4.13> [Journal Metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of neural-network based variable fractional order PID controllers for load frequency control in isolated microgrids

Belikov, Juri; Nosrati, Komeil; Škiparev, Vjatšeslav; Tepljakov, Aleksei; Petlenkov, Eduard; Levron, Yoash Power system frequency control : modeling and advances. 1st Ed 2023 / p. 203–216 : ill <https://www.elsevier.com/books/power-system-frequency-control/mishra/978-0-443-18426-0>

Application specific true critical paths identification in sequential circuits

Jürimägi, Lembit; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan; Devadze, Sergei; Oyeniran, Adeboye Stephen 2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS 2019) : 1-3 July 2019, Greece 2019 / p. 299-304 : ill <https://doi.org/10.1109/IOLTS.2019.8854442>

Application-oriented performance characterization of the ionic polymer transducers (IPTs) = loonpolümeeridest täiturite võimekuse karakteriseerimine rakendusteks

Hunt, Andres 2017 <https://digi.lib.ttu.ee/i/?7576> https://www.ester.ee/record=b4670806*est

Applications of digital twins for demand side recommendation scheme with consumer comfort constraints

Onile, Abiodun Emmanuel; Belikov, Juri; Petlenkov, Eduard; Levron, Yoash IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/ISGTEUROPE56780.2023.10407399>

Applying RIS-based communication for collaborative computing in a swarm of drones

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim IEEE Access 2023 / p. 70093–70109 <https://doi.org/10.1109/ACCESS.2023.3293737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

APPRAISER : DNN fault resilience analysis employing approximation errors

Taheri, Mahdi; Ahmadilivani, Mohammad Hasan; Jenihhin, Maksim; Daneshtalab, Masoud; Raik, Jaan 2023 26th International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS) 2023 / p. 124–127 : ill <https://ddecs2023.taltech.ee/> <https://doi.org/10.1109/DDECS57882.2023.10139468>

Approaches to extra-functional verification of security and reliability aspects in hardware designs = Riistvaraprojektide turva- ja töökindlusaspektide ekstrasfunktsionaalse verifitseerimise lähenemisviisid

Lai, Xinhui 2022 <https://doi.org/10.23658/taltech.29/2022> <https://digikogu.taltech.ee/et/Item/cff1aeb9-b0b2-49ce-b81a-bfb9dc25fd56> https://www.ester.ee/record=b5502807*est

Aquatic exercise

Gobbi, Michele; Aquiri, Andrea; Monoli, Cecilia Rehabilitation interventions in the patient with obesity 2020 / p. 35-50 https://doi.org/10.1007/978-3-030-32274-8_3

Archimedes screw - an alternative for safe migration through turbines?

Pauwels, Ine S.; Tuhtan, Jeffrey Andrew; Coeck, Johan; Buysse, David; Baeyens, Raf Novel Developments for Sustainable Hydropower 2022 / p. 125-133 : ill https://doi.org/10.1007/978-3-030-99138-8_11

Architectural solutions for high-speed data processing demands of CERN LHC detectors with FPGA and high-level synthesis

Devadze, Sergei; Nielsen, Christine Elizabeth; **Mihailov, Dmitri;** **Ellervee, Peeter** 2024 IEEE Nordic Circuits and Systems Conference (NorCAS) 2024 <https://doi.org/10.1109/NorCAS64408.2024.10752490> [Article at Scopus](#)

An area aware accelerator for elliptic curve point multiplication

Imran, Malik; **Pagliarini, Samuel Nascimento;** Rashid, Muhammad Haroon 27th IEEE International Conference on Electronics Circuits and Systems, (ICECS) 2020, Glasgow, UK, Virtual Conference, November 23-25, 2020 : proceedings 2020 / 4 p <https://doi.org/10.1109/ICECS49266.2020.9294908>

Areeba : an area efficient binary huff-curve architecture

Sajid, Asher; Rashid, Muhammad; Jamal, Sajjad Shaukat; **Imran, Malik;** Alotaibi, Saud S.; Sinky, Mohammed H. Electronics (Switzerland) 2021 / art. 1490 <https://doi.org/10.3390/electronics10121490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The ARROWS project : robotic technologies for underwater archaeology

Allotta, Benedetto; Costanzi, Riccardo; Ridolfi, Alessandro; Salvetti, Ovidio; Reggiannini, Marco; **Kruusmaa, Maarja;** **Salumäe, Taavi;** Lane, David M. Mike; Frost, Gordon; Tsiogkas, Nikolaos; Cocco, Michele IOP conference series : materials science and engineering 2018 / art. 012088 <https://doi.org/10.1088/1757-899X/364/1/012088> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Artificial lateral line for aquatic habitat modelling: An example for Lefua echigonia

Garcia-Vega, Ana; Fuentes-Perez, Juan Francisco; Fukuda, Shinji; **Kruusmaa, Maarja;** Sanz-Ronda, Francisco Javier; **Tuhtan, Jeffrey Andrew** Ecological Informatics 2021 / art. 101388 <https://doi.org/10.1016/j.ecoinf.2021.101388> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial lateral lines : assessing fish passages sensing like a fish [Online resource]

Fuentes-Pérez, Juan Francisco International Conference on Engineering and Ecohydrology for Fish Passage, June 19-21, 2017, Oregon State University, Corvallis, Oregon (USA) : presentation abstracts 2017 / p. 91 http://fishpassage.umass.edu/conference2017/sites/default/files/FishPassage2017_Abstracts.pdf

ARTmine : automatic association rule mining with temporal behavior for hardware verification

Heidari Iman, Mohammad Reza; **Jervan, Gert;** **Ghasempouri, Tara** 2024 Design, Automation & Test in Europe Conference & Exhibition (DATE) : Valencia, Spain, 25-27 March 2024 : proceedings 2024 / p. 1-6 : ill <https://ieeexplore.ieee.org/document/10546742> <https://doi.org/10.23919/DATE58400.2024.10546742> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Asjade Internet teeb TTÜ kampusest digilinnaku

Leier, Mairo Mente et Manu 2018 / lk. 40-41 : fot https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=3 <http://dea.digar.ee/publication/AKmenteetmanu> http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2862659*est

Assessing interaction mechanics in extended reality for control engineering applications

Remenyi, Armin; **Alsaleh, Saleh;** **Tepljakov, Aleksei** 2024 32nd International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2024 2024 <https://doi.org/10.23919/SoftCOM62040.2024.10721783> [Article at Scopus](#)

Assessing opportunities and barriers to improving the secondary use of health care data at the national level : multicase study in the Kingdom of Saudi Arabia and Estonia

Metsallik, Janek; **Draheim, Dirk;** Sabic, Zlatan; Novak, Thomas; **Ross, Peeter** Journal of Medical Internet Research 2024 / art. e53369 <https://doi.org/10.2196/53369> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment and Enhancement of Hardware Reliability for Deep Neural Networks = Riistvara töökindluse hindamine ja täiustamine süvanärvivõrkude jaoks

Ahmadilivani, Mohammad Hasan 2025 https://www.ester.ee/record=b5739227*est <https://digikogu.taltech.ee/et/Item/652d50e3-773f-4de5-897d-86531feb0d56> <https://doi.org/10.23658/taltech.19/2025>

Assessment of the eID ecosystem as a part of the state's critical infrastructure : the case of Estonia

Bejussova, Karolina; **Lips, Silvia;** **Ahmed, Rozha Kamal;** **Draheim, Dirk** Electronic Government and the Information Systems Perspective : 13th International Conference, EGOVIS 2024, Naples, Italy, August 26–28, 2024, Proceedings 2024 / p. 88 - 102 https://doi.org/10.1007/978-3-031-68211-7_8 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Augmented coaching ecosystem for non-obtrusive adaptive personalized elderly care on the basis of cloud-fog-dew computing paradigm [Electronic resource]

Gordienko, Yuri; Stirenko, S.; Alienin, O.; **Jervan, Gert** 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), May 22 - 26, 2017, Opatija, Croatia : proceedings 2017 / p. 359-364 : ill. [CD-ROM] <https://doi.org/10.23919/MIPRO.2017.7973449>

Augustihuumor

Kukk, Vello Õpetajate leht 2018 / lk. 5 <https://opleht.ee/2018/08/augustihuumor/>

Ausblick : Quo vadis Ethohydraulik – welche Entwicklungen gibt es?

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 45-59 https://doi.org/10.1007/978-3-658-32824-5_4

Automated area and coverage optimization of minimal latency checkers

Azad, Siavoosh Payandeh; Niazmand, Behrad; Apneet Kaur; Raik, Jaan; Jervan, Gert; Hollstein, Thomas 2017 22nd IEEE European Test Symposium (ETS 2017), Limassol, Cyprus, 22 – 26 May 2017 : proceedings 2017 / p. 7-8 : ill <https://doi.org/10.1109/ETS.2017.7968211>

An automated configuration framework for TSN networks

Houtan, Bahar; Bergström, Albert; Ashjaei, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Mubeen, Saad 2021 22nd IEEE International Conference on Industrial Technology (ICIT) : proceedings 2021 / p. 771-778 <https://doi.org/10.1109/ICIT46573.2021.9453628>

Automated environmental compliance monitoring of rivers with IoT and open government data

Miasayedava, Lizaveta; McBride, Keegan David Braun; **Tuhtan, Jeffrey Andrew** Journal of environmental management 2022 / art. 114283, 10 p. : ill <https://doi.org/10.1016/j.jenvman.2021.114283> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Automated identification of application-dependent safe faults in automotive systems-on-a-chips

Bagbaba, Ahmet Cagri; Augusto da Silva, Felipe; Sonza Reorda, Matteo; Hamdioui, Said; **Jenihhin, Maksim**; Sauer, Christian Electronics 2022 / art. 319 <https://doi.org/10.3390/electronics11030319> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An automated method for mining high-quality assertion sets

Heidari Iman, Mohammad Reza; Raik, Jaan; Jenihhin, Maksim; Jervan, Gert; Ghasempouri, Tara Microprocessors and microsystems 2023 / art. 104773 <https://doi.org/10.1016/j.micpro.2023.104773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Automated software-based in-field self-test program synthesis

Jasnetski, Artjom; Ubar, Raimund-Johannes; Tšertov, Anton International journal of microelectronics and computer science 2017 / p. 57-64 : ill

Automated software-based self-test generation for microprocessors

Jasnetski, Artjom; Ubar, Raimund-Johannes; Tšertov, Anton Proceedings of the 24st International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2017 : Bydgoszcz, Poland, June 19-21, 2014 2017 / p. 453-458 : ill <https://doi.org/10.23919/MIXDES.2017.8005252>

Automatic generation control of a future multisource power system considering high renewables penetration and electric vehicles: Egyptian Power System in 2035

Nour, Morsy; Magdy, Gaber; Chaves-Avila, Jose Pablo; Sanchez-Miralles, Alvaro; **Petlenkov, Eduard** IEEE Access 2022 / p. 51662-51681 : ill <https://doi.org/10.1109/ACCESS.2022.3174080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Automatic implementation-time usability evaluation for web user interfaces = Veebi kasutajaliidese kasutatavuse automaatne hindamine realiseerimisfaasis

Marenkov, Jevgeni 2019 https://www.ester.ee/record=b5231048*est

Automatic visual traffic sign damage detection and measurement of damaged area

Ersü, Can; Janson, Karl; Petlenkov, Eduard; Reinsalu, Uljana 2024 18th International Conference on Control, Automation, Robotics and Vision (ICARCV) 2024 / p. 505-510 <https://doi.org/10.1109/ICARCV63323.2024.10821546>

Autonomous last mile shuttle ISEAUTO for education and research

Sell, Raivo; Leier, Mairo; Rassõlkin, Anton; Ernits, Juhan-Peep International journal of artificial intelligence and machine learning 2020 / p. 18-30 <https://doi.org/10.4018/IJAIML.2020010102>

AutoRIO : an indoor testbed for developing autonomous vehicles

Loni, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael 2018 Proceedings of the Japan-Africa Conference on Electronics, Communications, and Computations (JAC-ECC) : December 16-18, 2018 Alexandria, Egypt 2018 / p. 69-72 : ill <https://doi.org/10.1109/JEC-ECC.2018.8679543>

AWAIT : an ultra-lightweight soft-error mitigation mechanism for network-on-chip links

Janson, Karl; Pihlak, Rene; Azad, Siavoosh Payandeh; Niazmand, Behrad; Jervan, Gert; Raik, Jaan 2018 13th International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC), Lille, France, July 9th-11th, 2018 2018 / p. 1-6 : ill <https://doi.org/10.1109/ReCoSoC.2018.8449374>

AVB-aware routing and scheduling for critical traffic in time-sensitive networks with preemption

Berisa, Aldin; Zhao, Luxi; Craciunas, Silviu S.; Ashjaei, Mohammad; Mubeen, Saad; **Daneshtalab, Masoud**; Sjödin, Mikael RTNS '22: Proceedings of the 30th International Conference on Real-Time Networks and Systems 2022 / p. 207-218
<https://doi.org/10.1145/3534879.3534926>

Backstepping-based output feedback boundary control for coupled fractional reaction-diffusion systems

Zhuang, Bo; Cui, Bao-Tong; Lou, Xu-Yang; **Chen, Juan** Zidonghua Xuebao/Acta Automatica Sinica 2022 / p. 2729 - 2743
<https://doi.org/10.16383/j.aas.c190389> [Journal metrics at Scopus](#) [Article at Scopus](#)

Baltic DB&IS 2020 Conference Forum and Doctoral Consortium co-located with the 14th International Baltic Conference on Databases and Information Systems (BalticDB&IS 2020) Tallinn, Estonia, June 16-19, 2020 : proceedings

2020 <http://ceur-ws.org/Vol-2620/xpreface.pdf> <http://ceur-ws.org/Vol-2620/>

Baltic Journal of Modern Computing

Selected Papers from the 14th International Baltic Conference on Databases and Information Systems

2020 https://www.bjmc.lu.lv/fileadmin/user_upload/lu_portal/projekti/bjmc/Contents/8_4_07a_DB_IS.pdf

Baltic Workboatsi tehasejuht Erik Aleksejev: Saaremaa laevaehitaja niipea roboteid rakendama ei hakka

toostusuudised.ee 2024 [Baltic Workboatsi tehasejuht Erik Aleksejev: Saaremaa laevaehitaja niipea roboteid rakendama ei hakka](#)

Band gap tuning based on adjustable stiffness of local resonators

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; **Petlenkov, Eduard** META 2023 Paris - France : The 13th International Conference on Metamaterials, Photonic Crystals and Plasmonics : proceedings 2023 / p. 1743-1744 : ill
https://metaconferences.org/META23/files/meta23_proceedings.pdf

Bandgap dynamics in locally resonant metastructures : a general theory of internal resonator coupling

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; **Petlenkov, Eduard** Applied Sciences (Switzerland) 2024 / art. 2447 <https://doi.org/10.3390/app14062447> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bandwidth Reduction DoS attacks in Multi-Tenant NoC-based MPSoCs : detection and avoidance strategies = Ribalaiuse vähendamise DoS-rünnakud mitme rentnikuga NoC-põhiste MPSoC-de puhul : tuvastamise ja vältimise strateegiad

Chaves Arroyave, Cesar Giovanni 2023 <https://doi.org/10.23658/taltech.8/2023> <https://digikogu.taltech.ee/et/Item/60b3f5ee-3a53-43c6-b79e-d6a8cbbc3489> https://www.ester.ee/record=b5548907*est

BASTION : board and SoC test instrumentation for ageing and no failure found

Jutman, Artur; Lotz, Christophe; Larsson, Erik; Sonza Reorda, Matteo; **Jenihhin, Maksim; Raik, Jaan** Proceedings of the 2017 Design, Automation & Test in Europe (DATE) : 27-31 March 2017, Swisstech, Lausanne, Switzerland 2017 / p. 115-120 : ill
<https://doi.org/10.23919/DATE.2017.7926968>

Battery storage technologies for electrical applications : impact in stand-alone photovoltaic systems

Akinyele, Daniel; **Belikov, Juri**; Levron, Yoash Energies 2017 / art. 1760, 39 p. : ill <https://doi.org/10.3390/en10111760> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bedload transport measurement in a Japanese gravel river using synchronized hydrodynamic and hydroacoustic pressure sensing

Tsubaki, R.; Fuentes-Perez, Juan Francisco; Kawamura, S.; **Tuhtan, Jeffrey Andrew; Sumitomo, K.** River Flow 2020 Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020): River Flow 2020, Online, 7-10 July 2020 2020 / p. 1476-1482 <https://doi.org/10.1201/b22619>

Beispiele aus der Praxis : Ethohydraulische Befunde - was bedeutet das?

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 23-43 https://doi.org/10.1007/978-3-658-32824-5_3

Benchmarking 3D CFD for studies on turbulent flow around fish shaped bodies

Khan, Ali Hassan; Hussmann, Karla Ruiz; Powala, Dennis; Hoerner, Stefan; **Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew** The 14th International Symposium on Ecohydraulics : proceedings 2022 / S3: Ecohydraulics on Micro-scale https://iahr-oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192523_72824.doc

Benchmarking advanced security closure of physical layouts

Eslami, Mohammad; Knechtel, Johann; Sinanoglu, Ozgur; Karri, Ramesh; **Pagliarini, Samuel Nascimento** ISPD '23 : proceedings of the 2023 International Symposium on Physical Design 2023 / p. 256-264 <https://doi.org/10.1145/3569052.3578924>
<https://dl.acm.org/doi/pdf/10.1145/3569052.3578924>

Beyond the surface : exploring fish dynamics with camera based monitoring

Haas, Christian; Engelberger, Leon; Schmalz, Maria; Tuhtan, Jeffrey Andrew Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / 1 p. <https://doi.org/10.13140/rg.2.2.35129.38249>

Bilateral output feedback control of fractional PDEs with space-dependent coefficients

Chen, Juan; Tepljakov, Aleksei; Petlenkov, Eduard; Zhuang, Bo IFAC-PapersOnLine 2020 / p. 3743 - 3748

<https://doi.org/10.1016/j.ifacol.2020.12.2555> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Bing-CF-IDF+ : a semantics-driven news recommender system

Brocken, Emma; Hartveld, Aron; Koning, Emma de; Hogenboom, Frederik; Frasinca, Flavius; **Robal, Tarmo** Advanced Information Systems Engineering 31st International Conference, CAiSE 2019, Rome, Italy, June 3–7, 2019, Proceedings 2019 / p. 32-47

https://doi.org/10.1007/978-3-030-21290-2_3 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Bing-CSF-IDF+: a semantics-driven recommender system for news

Huijsduijnen, Lies Hooft van; Hoogmoed, Thom; Keulers, Geertje; Langendoen, Edmar; Langendoen, Sanne; Vos, Tim; Hogenboom, Frederik; Frasinca, Flavius; **Robal, Tarmo** New trends in databases and information systems : ADBIS 2020 short papers, Lyon, France, August 25–27, 2020 : proceedings 2020 / p. 143–153

https://doi.org/10.1007/978-3-030-54623-6_13 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Bio-inspired robotic fish for assessment of injury risks during the fish passage

Abbaszadeh, Shokoofeh; **Toming, Gert; Tuhtan, Jeffrey Andrew**; Leidhold, Roberto; Hoerner, Stefan Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / 1 p.

https://www.researchgate.net/publication/381655658_Bio-inspired_robotic_fish_for_assessment_of_injury_risks_during_the_fish_passage

Bioinspired whisker sensor for 3D mapping of underground mining environments

Gomez, Virgilio; **Remmas, Mohamed Walid**; Hernando, Miguel; **Ristolainen, Asko**; Rossi, Claudio Biomimetics 2024 / art. 83

<https://doi.org/10.3390/biomimetics9020083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biorobotikud uurisid Keila-Joal robotkaladega kalade läbipääse

Mente et Manu 2018 / lk. 7 : fot https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6

http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> https://artiklid.elnet.ee/record=b2862647*est

Biorobotikute loodud meetodid aitavad kaladel hüdroelektrijaamades ohutumalt liikuda

Mente et Manu 2020 / lk. 32 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

Black-box assessment of optical spectrum services

Kaeval, Kaida; Elbers, Jörg-Peter; Grobe, Klaus; Tikas, Marko; Fehenberger, Tobias; Griesser, Helmut; **Jervan, Gert** 2021 Optical Fiber Communications Conference and Exhibition (OFC) : 6-10 June 2021 : San Francisco, CA, USA 2021 / 3 p

<https://ieeexplore.ieee.org/document/9489700>

Blended antilock braking system control method for all-wheel drive electric sport utility vehicle

Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p.

229-241 https://doi.org/10.1007/978-3-030-37161-6_17 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Boundary Mittag-Leffler stabilization of coupled time fractional order reaction–advection–diffusion systems with non-constant coefficients

Chen, Juan; **Tepljakov, Aleksei; Petlenkov, Eduard**; Chen, YangQuan; Zhuang, Bo Systems & control letters 2021 / art. 104875

<https://doi.org/10.1016/j.sysconle.2021.104875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Boundary state and output feedbacks for underactuated systems of coupled time-fractional PDEs with different space-dependent diffusivity

Chen, Juan; **Tepljakov, Aleksei; Petlenkov, Eduard**; Zhuang, Bo International journal of systems science 2020 / p. 2922-2942

<https://doi.org/10.1080/00207721.2020.1803442> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bridging the gap in technology transfer for advanced process control with industrial applications

Vansovits, Vitali; Petlenkov, Eduard; Tepljakov, Aleksei; Vassiljeva, Kristina; Belikov, Juri Sensors 2022 / art. 4149

<https://doi.org/10.3390/s22114149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Brief Communication : mapping river ice using drones and structure from motion

Alfredsen, Knut; Haas, Christian; **Tuhtan, Jeffrey Andrew**; Zinke, Peggy The cryosphere 2018 / p. 627-633 : ill

<https://doi.org/10.5194/tc-12-627-2018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building global societies on collective intelligence : challenges and opportunities

Suran, Shweta; Pattanaik, Vishwajeet; Kurvers, Ralf; Hallin, Carina Antonia; De Liddo, Anna; Krimmer, Robert Johannes;

Draheim, Dirk Digital government : research and practice 2022 / art. 31, p. 1-6 <https://doi.org/10.1145/3568169> [Journal metrics at Scopus](#) [Article at Scopus](#)

CAC 2.0 : a corrupt and correct logic locking technique resilient to structural analysis attacks

Aksoy, Levent; Yasin, Muhammad; **Pagliarini, Samuel Nascimento** arXiv.org 2024 / 6 p. : ill
<https://doi.org/10.48550/arXiv.2401.07142>

CAC 2.0 : a corrupt and correct logic locking technique resilient to structural analysis attacks

Aksoy, Levent; Yasin, Muhammad; **Pagliarini, Samuel Nascimento** 2024 IEEE 25th Latin American Test Symposium (LATS) : 9-12 April 2024 (2024) 2024 <https://doi.org/10.1109/LATS62223.2024.10534592> [Article at Scopus](#)

CAESAR-MPSoC : dynamic and efficient MPSoC security zones

Azad, Siavoosh Payandeh; Tempelmeier, Michael; **Jervan, Gert;** Sepulveda, Johanna 2019 IEEE Computer Society Annual Symposium on VLSI : ISVLSI 2019 : proceedings 2019 / p. 477-482 : ill <https://doi.org/10.1109/ISVLSI.2019.00092>

Calculation of probabilistic testability measures for digital circuits with Structurally Synthesized BDDs

Jürimägi, Lembit; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan Microprocessors and microsystems 2020 / art. 103117, 12 p <https://doi.org/10.1016/j.micpro.2020.103117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Can I have a Mooc2Go, please? On the viability of mobile vs. stationary learning

Zhao, Yue; **Robal, Tarmo;** Lofi, Christoph; Hauff, Claudia Lifelong Technology-Enhanced Learning : 13th European Conference on Technology Enhanced Learning : EC-TEL 2018, Leeds, UK, September 3-5, 2018 : proceedings 2018 / p. 101-115 : ill
https://doi.org/10.1007/978-3-319-98572-5_8 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Cannabinoids (Δ^9 -THC and CBD) quantitative analysis by in-situ portable drug analyzer Drug Hunter

Gorbatšova, Jelena; Bolkvadze, V; Vaher, Merike; Halling, Evelin; Mazina-Šinkar, Jekaterina Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 155
https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCka+2022-05-28+str+numeracja+od+stopki+spad3mm+26_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed

Challenges in using neural networks in safety-critical applications

Forsberg, H.; Linden, Jan; Hjorth, J.; Manefjord, T.; **Daneshtalab, Masoud** AIAA/IEEE Digital Avionics Systems Conference - Proceedings, 2020 AIAA/IEEE 39th Digital Avionics Systems Conference (DASC), Virtual Conference, October 11-16, 2020 : Proceedings 2020 / 7 p <https://doi.org/10.1109/DASC50938.2020.9256519>

Challenges of active learning in a view of integrated engineering education

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Education Sciences 2021 / art. 43 <https://doi.org/10.3390/educsci11020043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Challenges of microgrids in remote communities: a STEEP model application

Akinyele, Daniel; **Belikov, Juri;** Levron, Yoash Energies 2018 / art. 432, 35 p. : ill <https://doi.org/10.3390/en11020432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metric at WOS](#) [Article at WOS](#)

Challenges of reliability assessment and enhancement in autonomous systems

Jenihhin, Maksim; Sonza Reorda, Matteo; **Balakrishnan, Aneesh;** Alexandrescu, Dan 2019 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT 2019) 2019 / 6 p <https://doi.org/10.1109/DFT.2019.8875379>

Challenges, benefits, and open questions in data-driven commercial building cooling optimization

Sukhanov, Ivan; Volkova, Anna; Köse, Ahmet; Hani, Allan; **Petlenkov, Eduard** E3S Web of Conferences : BuildSim Nordic 2024 2024 / art. 06003 <https://doi.org/10.1051/e3sconf/202456206003> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Channel performance estimations with extended channel probing

Kaeval, Kaida; Griesser, Helmut; Grobe, Klaus; Elbers, Jörg-Peter; Tikas, Marko; **Jervan, Gert** Photonic Networks : 21th ITG-Symposium : 24-25 November 2020 : online 2020 / p. 60-64 <http://d-nb.info/1223037061> <https://ieeexplore.ieee.org/document/9273755>

Characterization of the optical spectrum as a service

Kaeval, Kaida; Jansen, Sander Lars; Spinty, Florian; Grobe, Klaus; Griesser, Helmut; Fehenberger, Tobias; Tikas, Marko; **Jervan, Gert** Journal of Optical Communications and Networking 2022 / p. 398-410 <https://doi.org/10.1364/JOCN.454158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chip-to-Chip authentication method based on SRAM PUF and public key cryptography

Karageorgos, Ioannis; Isgenc, Mehmet Meric; **Pagliarini, Samuel Nascimento;** Pileggi, Larry Journal of hardware and systems security 2019 / p. 382-396 : ill <https://doi.org/10.1007/s41635-019-00080-y>

Classification algorithm improvement for physical activity recognition in maritime environments

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol. 3) 2019 / p. 13-17 <https://doi.org/10.1007/978-981-10->

Classification of benthic biocenoses of the lowland river Tudovka (Tver region, Russia) using community features

Schletterer, Martin; Füreder, Leopold; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; **Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew** Geography, environment, sustainability 2017 / p. 40-56 : ill <https://doi.org/10.24057/2071-9388-2017-10-2-40-56> [Journal metrics at Scopus Article at Scopus](#)

CLD : an accurate, cost-effective and scalable run-time Cache Leakage Detector

Shalabi, Ameer; Ghasempouri, Tara; Ellervee, Peeter; Raik, Jaan 2021 24th International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS) : Vienna, Austria, 07-09 April 2021 2021 / p. 127-132 : ill <https://doi.org/10.1109/DDECS52668.2021.9417071>

The CMS fast beam condition monitor for HL-LHC

Auzinger, G.; Bakhshiansohi, H.; Dabrowski, A.; Delannoy, A.G.; Dierlamm, A.; Dragicevic, M.; Gholami, A.; Gomez, G.; Jenihhin, Maksim; **Shibin, Konstantin** Journal of instrumentation 2024 / art. C03048, 10 p. : ill <https://doi.org/10.1088/1748-0221/19/03/C03048> [Conference proceedings at Scopus Article at Scopus Conference proceedings at WOS Article at WOS](#)

Combined pseudo-exhaustive and deterministic testing of array multipliers

Oyeniran, Adeboye Stephen; Azad, Siavoosh Payandeh; Ubar, Raimund-Johannes 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) : THETA 21st edition, 24th-26th May, Cluj-Napoca, Romania : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/AQTR.2018.8402708>

Combining fault analysis technologies for ISO26262 functional safety verification

Augusto da Silva, Felipe; **Bagbaba, Ahmet Cagri**; Hamdioui, Said; Sauer, Christian 2019 IEEE 28th Asian Test Symposium (ATS) : 10–13 December 2019, Kolkata, India : proceedings 2019 / p. 129–134 : ill <https://doi.org/10.1109/ATS47505.2019.00024>

Combining functional and structural approaches in test generation for digital systems

Ubar, Raimund-Johannes Microelectronics reliability 1998 / p. 317-329 : ill [https://doi.org/10.1016/S0026-2714\(97\)00192-3](https://doi.org/10.1016/S0026-2714(97)00192-3)

Comparative analysis of intelligent braking controllers for electric vehicles

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Renewable energy and power quality journal 2022 / p. 55-60 <https://doi.org/10.24084/repqj20.217> [Journal metrics at Scopus Article at Scopus](#)

Comparative analysis of machine learning techniques for non-intrusive load monitoring

Shabbir, Noman; Vassiljeva, Kristina; Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Petlenkov, Eduard; Belikov, Juri Electronics 2024 / art. 1420 <https://doi.org/10.3390/electronics13081420> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

Comparative evaluation of various generations of Controller Area Network based on timing analysis

Berisa, Aldin; Panjevic, Adis; Kovac, Imran; Lyngbäck, Hans; Ashjaei, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Mubeen, Saad 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA) 2023 / p. 1-8 <https://doi.org/10.1109/ETFA54631.2023.10275549>

A comparative study on graph-based ranking algorithms for consumer-oriented demand side management

Onile, Abiodun Emmanuel; Belikov, Juri; Petlenkov, Eduard; Levron, Yoash 2021 IEEE Madrid PowerTech 2021 / 6 p <https://doi.org/10.1109/PowerTech46648.2021.9494752>

Comparing land and underwater gait characteristics with inertial measurement units

Monoli, Cecilia; Gasparini, Isabella; Piccinini, Luigi; **Tuhtan, Jeffrey Andrew**; Galli, Manuela 26th Congress of the European Society of Biomechanics, July 11-14, 2021, Milan, Italy : conference paper 2021 / 2 p. : ill https://www.researchgate.net/publication/353803400_Comparing_Land_and_Underwater_Gait_Characteristics_with_Inertial_Measurement_Units

Comparing the leaching behavior of phosphorus, aluminum and iron from post-precipitated tertiary sludge and anaerobically digested sewage sludge aiming at phosphorus recovery

Monea, Marlena; Löhr, Dirk Karsten; Meyer, Carsten; **Ivanova Drenkova-Tuhtan, Asya** Journal of cleaner production 2020 / art. 119129, 8 p. : ill <https://doi.org/10.1016/j.jclepro.2019.119129> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

Comparison of near-body flow fields of a gudgeon and NACA013 profile

Khan, Ali Hassan; Toming, Gert; Hoerner, Stefan; **Tuhtan, Jeffrey A.** GeoPlanet: Earth and Planetary Sciences 2024 / p. 231 - 242 https://doi.org/10.1007/978-3-031-56093-4_18 [Article Collection metrics at Scopus Article at Scopus](#)

Comparison of predictive equations for basal metabolic rate

Allik, Ardo; Mägi, Siiri; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert Wireless Mobile Communication and Healthcare : 7th International Conference, MobiHealth 2017, Vienna, Austria, November 14–15, 2017 : proceedings 2018 / p. 261-264 : ill <https://doi.org/10.1007/978-3-319-98551-0> [Conference Proceedings at Scopus Article at Scopus Article at WOS](#)

Comparison of time-varying phasor and dq0 dynamic models for large transmission networks

Belikov, Juri; Levron, Yoash International journal of electrical power & energy systems 2017 / p. 65-74

<https://doi.org/10.1016/j.ijepes.2017.05.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Competence based learning - framework, implementation, analysis and management of learning process =

Kompetentsipõhine õpe - raamistik, implementatsioon, analüüs ja õppeprotsessi juhtimine

Umbleja, Kadri 2017 <https://digi.lib.ttu.ee/ii/?7573> https://www.ester.ee/record=b4670803*est

Composing graph theory and deep neural networks to evaluate SEU type soft error effects

Balakrishnan, Aneesh; Lange, Thomas; Glorieux, Maximilien; Alexandrescu, Dan; **Jenihhin, Maksim** 9th Mediterranean Conference on Embedded Computing (MECO'2020), Budva, Montenegro, 8-11 June 2020 2020

<https://doi.org/10.1109/MECO49872.2020.9134279>

A comprehensive methodology for stress procedures evaluation and comparison for Burn-In of automotive SoC

Appello, D.; Bernardi, P.; Giacobelli, G.; **Ruberg, Priit** Proceedings of the 2017 Design, Automation & Test in Europe (DATE) : 27-31 March 2017, Swisstech, Lausanne, Switzerland 2017 / p. 646-649 : ill <https://doi.org/10.23919/DATE.2017.7927068>

Comprehensive performance and robustness analysis of 2D turn models for network-on-chips

Azad, Siavoosh Payandeh; Niazmand, Behrad; Janson, Karl; Kogge, Thilo; Raik, Jaan; Jervan, Gert; Hollstein, Thomas 2017 IEEE International Symposium on Circuits and Systems (ISCAS) 2017 / p. 1476-1479 : ill

<https://doi.org/10.1109/ISCAS.2017.8050634> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A comprehensive systematic review of integration of time sensitive networking and 5G communication

Satka, Zenepe; Ashjaei, Mohammad; Fotouhi, Hossein; **Daneshtalab, Masoud**; Sjödin, Mikael; Mubeen, Saad Journal of Systems Architecture 2023 / art. 102852, 22 p. : ill <https://doi.org/10.1016/j.sysarc.2023.102852>

Computational intelligence approach for estimation of vehicle insurance risk level

Vassiljeva, Kristina; Tepljakov, Aleksei; Petlenkov, Eduard; Netšajev, Eduard 2017 International Joint Conference on Neural Networks (IJCNN 2017) : Anchorage, Alaska, USA, 14-19 May 2017 2017 / p. 4073-4078 : ill

<https://doi.org/10.1109/IJCNN.2017.7966370> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Concatenated GSNR profiles for end-to-end performance estimations in disaggregated networks

Kaeval, Kaida; Myrny, Jani; Grobe, Klaus; Griesser, Helmut; **Jervan, Gert** 2022 Optical Fiber Communications Conference and Exhibition (OFC) : San Diego, California, USA, 6 – 10 March 2022 : proceedings 2022 / 3 p

<https://ieeexplore.ieee.org/document/9748620/figures#figures>

Conditional fault collapsing in digital circuits with shared structurally synthesized BDDs [Online resource]

Jürimägi, Lembit; Ubar, Raimund-Johannes BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600967>

Constrained intelligent frequency control in an AC Microgrid : an Online reinforcement learning based PID tuning approach

Nosrati, Komeil; Tepljakov, Aleksei; Petlenkov, Eduard; Škiparev, Vjatseslav; **Belikov, Juri**; Levron, Yoash 2023 IEEE Power & Energy Society General Meeting (PESGM) 2023 / 5 p. : ill <https://doi.org/10.1109/PESGM52003.2023.10252482>

Continuous automated ventilation heat recovery efficiency performance assessment using building monitoring system

Kull, Tuule Mall; Mikola, Alo; Tukia, Andres; Köse, Ahmet; Petlenkov, Eduard; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 10006, 10 p. : ill <https://doi.org/10.1051/e3sconf/202124610006> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Continuous, near-bed current velocity estimation using pressure and inertial sensing

Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja IEEE sensors journal 2019 / p. 12398 - 12406 : ill

<https://doi.org/10.1109/JSEN.2019.2937954> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Contrastive Learning for Lane Detection via cross-similarity

Zoljodi, Ali; Abadijoui, Sadegh; Alibeigi, Mina; **Daneshtalab, Masoud** Pattern Recognition Letters 2024 / p. 175-183 : ill

<https://doi.org/10.1016/j.patrec.2024.08.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Contributions to the modelling and control of fin-actuated autonomous underwater vehicles = Uimedega autonoomsete allveesõidukite modelleerimis- ja juhtimisloogika edendamine

Remmas, Mohamed Walid 2023 <https://doi.org/10.23658/taltech.71/2023> <https://digikogu.taltech.ee/et/Item/17167e2e-2c31-451c-834d-1da98160b2ce> https://www.ester.ee/record=b5647340*est

Control allocation for 6-DOF control of a highly manoeuvrable under-actuated bio-inspired AUV

Remmas, Mohamed Walid; Meurer, Christian; Chemori, Ahmed; **Kruusmaa, Maarja** IEEE Transactions on Robotics 2023

Control of pick-and-place robots with reduced power consumption

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 4 p
<https://doi.org/10.1109/RTUCON60080.2023.10413180>

Coordinated PI-based frequency deviation control of isolated hybrid microgrid : an online multi-agent tuning approach via reinforcement learning

Nosrati, Komeil; Tepļakov, Aleksej; Petlenkov, Eduard; Levron, Yoash; Škiparev, Vjatseslav; Belikov, Juri 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / p. 1-5 : ill <https://doi.org/10.1109/ISGT-Europe54678.2022.9960311>

Corrigendum to “Digitalization and real-time control to mitigate environmental impacts along rivers: Focus on artificial barriers, hydropower systems and European priorities” [Sci. Total Environ. 875 (2023) 162489] (Science of the Total Environment (2023) 875, (S0048969723011051), (10.1016/j.scitotenv.2023.162489))

Quaranta, Emanuele; Bejarano, Maria Dolores; Comoglio, Claudio; Fuentes-Pérez, Juan Francisco; Pérez-Díaz, Juan Ignacio; Sanz-Ronda, Francisco Javier; Schletterer, Martin; Szabo-Meszáros, Marcell; **Tuhtan, Jeffrey A.** Science of the total environment 2024 / 1 p <https://doi.org/10.1016/j.scitotenv.2024.171913> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-effective concurrent hardware checkers for network on chip based system on chip = Kulutõhusad süsteemiga paralleelsed rikkemonitorid kiipvõrkudel põhinevatele kiipsüsteemidele

Hariharan, Ranganathan 2019 <https://digi.lib.ttu.ee/i/?12854> https://www.ester.ee/record=b5243161*est

Cost-effective fault tolerance for CNNs using parameter vulnerability based hardening and pruning

Ahmadilivani, Mohammad Hasan; Mousavi, Seyedhamidreza; Raik, Jaan; Daneshtalab, Masoud; Jenihhin, Maksim 2024 IEEE 30th International Symposium on On-line Testing and Robust System Design (IOLTS) : IOLTS 2024 : July 03rd-05th 2024, Rennes, Brittany, France 2024 / 7 p <https://doi.org/10.1109/IOLTS60994.2024.10616072> [Article at Scopus](#) [Article at WOS](#)

Cross-layer dependability management in network on chip based system on chip = Kiipvõrkudel põhinevate süsteemide kihtideülene usaldatavuse haldus

Azad, Siavoosh Payandeh 2018 <https://digi.lib.ttu.ee/i/?9948> https://www.ester.ee/record=b5056143*est

DADS : decentralized attestation for device swarms

Wedaj, Samuel; **Paul, Kolin**; Ribeiro, Vinay J. ACM Transactions on Privacy and Security 2019 / Art. 19
<https://doi.org/10.1145/3325822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Damping Optimization in Locally Resonant Metastructures via Hybrid GA-PSO Algorithms and Modal Analysis

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; Ellervee, Peeter; Petlenkov, Eduard ASME 2024 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS2024) : September 9–11, 2024, Atlanta, Georgia, USA : proceedings 2024 / Paper No: SMASIS2024-137019 ; 8 p <https://doi.org/10.1115/SMASIS2024-137019>

DASS: Differentiable architecture search for sparse neural networks

Mousavi, Hamid; Loni, Mohammad; Alibeigi, Mina; **Daneshtalab, Masoud** ACM transactions on embedded computing systems 2023 / art. 105, 21 p. : ill <https://doi.org/10.1145/3609385> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

DAT: deep learning-based acceleration-aware trajectory forecasting

Sharifi, Ali Asghar; Zoljodi, Ali; **Daneshtalab, Masoud** Journal of imaging 2024 / art. 321, 16 p. : ill
<https://doi.org/10.3390/jimaging10120321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data analysis for embedded software performance and energy consumption estimation

Ruberg, Priit; Liiv, Elvar; Lass, Keijo; Ellervee, Peeter 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 928-933 : ill <https://doi.org/10.1109/UKRCON.2019.8879787>

Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings

2020 <https://doi.org/10.1007/978-3-030-57672-1>

Data-driven baseline generation for post-retrofit energy saving assessment, a comparison of statistical and machine learning methods

Kuivjõgi, Helena; Vasman, Sofia; Petlenkov, Eduard; Thalfeldt, Martin; Kurnitski, Jarek Journal of building engineering 2024 / art. 111016 <https://doi.org/10.1016/j.job.2024.111016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data-driven cross-layer fault management architecture for sensor networks

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan 16th European Dependable Computing Conference : EDCC 2020 : Virtual Conference, Munich, Germany, 7-10 September 2020 : proceedings 2020 / art. 20094188, p. 33-40
<https://doi.org/10.1109/EDCC51268.2020.00015>

Data-driven fault-resilient cross-layer sensor network architecture = Andmepõhine tõrkekindel kihtideülene sensorvõrgu arhitektuur

Vihman, Lauri 2024 https://www.ester.ee/record=b5657135*est <https://digikogu.taltech.ee/et/Item/00a93258-dc0f-4a4d-822f-099fff757224>
<https://doi.org/10.23658/taltech.7/2024>

Data-driven model predictive techniques for unknown linear time invariant systems

Ghorbani, Majid IEEE Control Systems Letters 2024 / p. 199 - 204 <https://doi.org/10.1109/LCSYS.2024.3359068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data-driven occupancy profile identification and application to the ventilation schedule in a school building

Vassiljeva, Kristina; Matson, Margarita; Ferrantelli, Andrea; Petlenkov, Eduard; Thalfeldt, Martin; Belikov, Juri Energies 2024 / art. 3080 <https://doi.org/10.3390/en17133080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Day-ahead PV output power forecasting utilizing boosting recursive lightGBM-LSTM framework

Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Vinnikov, Dmitri; Belikov, Juri; Petlenkov, Eduard IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p
<https://doi.org/10.1109/ISGTEUROPE56780.2023.10408090>

Deep learning for detection of pavement distress using nonideal photographic images

Tepljakov, Aleksei; Riid, Andri; Pihlak, Rene; Vassiljeva, Kristina; Petlenkov, Eduard 2019 42nd International Conference on Telecommunications and Signal Processing (TSP) 2019 / p. 195-200 : ill <https://doi.org/10.1109/TSP.2019.8769086>

Deep learning for radar-based object detection in unmanned ground vehicles

Ersü, Can; Petlenkov, Eduard; Janson, Karl Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 8 : oral 33 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

DeepAxe : a framework for exploration of approximation and reliability trade-offs in DNN accelerators

Taheri, Mahdi; Riazati, Mohammad; Ahmadilivani, Mohammad Hasan; Jenihhin, Maksim; Daneshtalab, Masoud; Raik, Jaan; Sjödin, Mikael; Lisper, Björn 2023 24th International Symposium on Quality Electronic Design (ISQED) 2023 / 8 p. : ill <https://doi.org/10.1109/ISQED57927.2023.10129353>

DeepFlexiHLS : Deep Neural Network Flexible High-Level Synthesis Directive Generator

Riazati, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Lisper, Björn Riazati, M.; Daneshtalab, M.; Sjödin, M.; Lisper, B. 2022 / p. 1-6 <https://doi.org/10.1109/NorCAS57515.2022.9934617>

DeepHLS: A complete toolchain for automatic synthesis of deep neural networks to FPGA

Riazati, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Lisper, Björn ICECS 2020 - 27th IEEE International Conference on Electronics, Circuits and Systems, November 23-25, 2020, Virtual Conference : Proceedings 2020 / 4 p
<https://doi.org/10.1109/ICECS49266.2020.9294881>

DeepVigor: Vulnerability Value RanGes and FactORs for DNNs' Reliability Assessment

Ahmadilivani, Mohammad Hasan; Taheri, Mahdi; Raik, Jaan; Daneshtalab, Masoud; Jenihhin, Maksim IEEE European Test Symposium (ETS) : Venice, Italy, 22-26 May 2023 : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/ETS56758.2023.10174133>

DeepVigor+: Scalable and Accurate Semi-Analytical Fault Resilience Analysis for Deep Neural Networks

Ahmadilivani, Mohammad Hasan; Raik, Jaan; Daneshtalab, Masoud; Jenihhin, Maksim arXiv.org 2024 / 14 p. : ill <https://doi.org/10.48550/arXiv.2410.15742>

Degree of Dieudonne determinant defines the order of nonlinear system

Kotta, Ülle; Belikov, Juri; Halas, Miroslav; Leibak, Alar International journal of control 2019 / p. 518-527
<https://doi.org/10.1080/00207179.2017.1361042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Demand side management for commercial buildings : multiple heating systems based optimization in real-time

Köse, Ahmet; Sukhanov, Ivan; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard Proceedings of the 30th ICE IEEE/ITMC Conference on Engineering, Technology, and Innovation: Digital Transformation on Engineering, Technology and Innovation, ICE 2024 2024 IEEE International Conference on Engineering, Technology, and Innovation (ICE/ITMC) 2024 / 8 p
<https://doi.org/10.1109/ICE/ITMC61926.2024.10794302>

DenseDisp: Resource-Aware Disparity Map Estimation by Compressing Siamese Neural Architecture

Loni, Mohammad; Zoljodi, Ali; Maier, Daniel; Majd, Amin; Daneshtalab, Masoud; Sjödin, Mikael; Juurlink, Ben H.H.; Akbari, Reza 2020 IEEE Congress on Evolutionary Computation (CEC) : conference proceedings 2020 / 8 p
<https://doi.org/10.1109/CEC48606.2020.9185611>

Dependability improvements of NoC-based systems = Töökindluse parandamine kiipvõrkudel põhinevates süsteemides

Niazmand, Behrad 2018 <https://digi.lib.ttu.ee/i/79879> https://www.ester.ee/record=b4907650*est

Dependence of the EEG nonlinear coupling on the frequency bands and the segment lengths

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järvelaid, Mari; **Raik, Jaan; Hinrikus, Hiie** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 799-802 https://doi.org/10.1007/978-981-10-5122-7_200 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Depth-dependent hydraulic roughness and its impact on the assessment of hydropeaking

Kopecki, Janina; Schneider, Matthias; **Tuhtan, Jeffrey Andrew** Science of the total environment 2017 / p. 1597-1605 : ill <https://doi.org/10.1016/j.scitotenv.2016.10.110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and verification of secure cache wrapper against access-driven side-channel attacks

Niazmand, Behrad; Azad, Siavoosh Payandeh; Jervan, Gert; Sepulveda, Johanna Euromicro Conference on Digital System Design : DSD 2019 : 28 - 30 August 2019 Kallithea, Chalkidiki, Greece : proceedings 2019 / p. 672-676 : ill <https://doi.org/10.1109/DSD.2019.00108>

Design concept and microarchitecture of network-on-chip with best-effort and guaranteed-throughput services

Samman, Faizal; **Hollstein, Thomas** International journal of innovative computing, information and control 2019 / p. 305-319 : ill <https://doi.org/10.24507/ijicic.15.01.305> <http://www.ijicic.net/> <http://www.ijicic.net/servlet/Download?contentID=CONT5b67c7cbc23142feade914ceeabbd4d> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design error diagnosis in digital circuits with stuck-at fault model

Jutman, Artur; Ubar, Raimund-Johannes Microelectronics reliability 2000 / p. 307-320 : ill [https://doi.org/10.1016/S0026-2714\(99\)00203-6](https://doi.org/10.1016/S0026-2714(99)00203-6)

Design obfuscation versus test

Farahmandi, Farimah; Sinanoglu, Ozgur; Blanton, Ronald; **Pagliarini, Samuel Nascimento** 2020 IEEE European Test Symposium (ETS) : ETS 2020, May 25 - 29, 2020, Tallinn, Estonia 2020 / 10 p <https://doi.org/10.1109/ETS48528.2020.9131590>

Design of a generalized fractional-order PID controller using operational amplifiers

Gonzalez, Emmanuel A.; Alimisis, Vassilis; Psychalinos, Costas; **Tepljakov, Aleksei** 2018 25th IEEE International Conference on Electronics Circuits and Systems (ICECS), Bordeaux, France, December 9-12, 2018 2018 / p. 253-256 : ill <http://dx.doi.org/10.1109/ICECS.2018.8617954>

Design of a MATLAB-based teaching tool in introductory fractional-order systems and controls [Electronic resource]

Tepljakov, Aleksei; Petlenkov, Eduard; Gonzalez, Emmanuel A.; Petraš, Ivo 2017 IEEE Frontiers in Education Conference (FIE) : proceedings 2017 / 4 p. : ill [USB] <https://doi.org/10.1109/FIE.2017.8190681>

Design space exploration of SABER in 65nm ASIC

Imran, Malik; Almeida, Felipe; Raik, Jaan; Basso, Andrea; Roy, Sujoy Sinha; **Pagliarini, Samuel Nascimento** ASHES '21 : proceedings of the 5th Workshop on Attacks and Solutions in Hardware Security 2021 / p. 85-90 <https://doi.org/10.1145/3474376.3487278>

Design understanding : from logic to specification

Fey, Goerschwin; **Ghasempouri, Tara;** Jacobs, Swen; **Raik, Jaan** Proceedings of the 2018 IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC) : October 8-10, 2018, Verona, Italy 2018 / p. 172-175 : ill <https://doi.org/10.1109/VLSI-SoC.2018.8644732>

Designing Compact Convolutional Neural Network for Embedded Stereo Vision Systems

Loni, Mohammad; Majd, Amin; Loni, Abdolali; **Daneshtalab, Masoud;** Sjödin, Mikael; Troubitsyna, Elena 2018 IEEE 12th International Symposium on Embedded Multicore/Many-core Systems-on-Chip : MCSoc 2018 : proceedings 2018 / p. 244-251 : ill <https://doi.org/10.1109/MCSoc2018.2018.00049>

Designing reliable cyber-physical systems

Aleksandrowicz, Gadi; Arbel, Eli; Bloem, Roderick; **Devadze, Sergei; Jenihhin, Maksim; Jutman, Artur; Raik, Jaan; Shibin, Konstantin** Languages, design methods, and tools for electronic system design : selected contributions from FDL 2016 2018 / p. 15-38 : ill https://doi.org/10.1007/978-3-319-62920-9_2 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Design-time web usability evaluation with guideliner

Makarek, Jevgeni; Robal, Tarmo; Kalja, Ahto Complex Systems Informatics and Modeling Quarterly (CSIMQ) 2018 / art. 90, p. 90-109 : ill <https://doi.org/10.7250/csimq.2018-15.05>

Detecting and mitigating Low-and-Slow DoS attacks in NoC-based MPSoCs

Chaves Arroyave, Cesar Giovanni; Azad, Siavoosh Payandeh; Sepulveda, Johanna; **Hollstein, Thomas** 2019 14th International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC) : July 1-3 2019, York - United Kingdom : proceedings 2019 / p. 82-89 : ill <https://doi.org/10.1109/ReCoSoC48741.2019.9034934>

Detection and evaluation of driver distraction using machine learning and fuzzy logic

Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard**; Herrmann, Martin IEEE Transactions on Intelligent Transportation Systems 2019 / p. 2048 - 2059 <https://doi.org/10.1109/TITS.2018.2857222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determined-safe faults identification : a step towards ISO26262 hardware compliant designs

Augusto da Silva, Felipe; **Bagbaba, Ahmet Cagri**; Sartoni, Sandro; Cantoro, Riccardo; Sonza Reorda, Matteo; Hamdioui, Said; Sauer, Christian 2020 25th IEEE European Test Symposium (ETS) 2020 / 6 p. : ill <https://doi.org/10.1109/ETS48528.2020.9131568>

Developing a translation technique for converged TSN-5G communication

Satka, Zenepe; Pantzar, David; Magnusson, Alexander; Ashjaei, Mohammad; Fotouhi, Hossein; Sjödin, Mikael; **Daneshtalab, Masoud**; **Mubeen, Saad** Communication in Automation : 18th IEEE International Workshop on Factory Communication Systems 2022 : WFCS 2022 2022 / 8 p <https://doi.org/10.1109/WFCS53837.2022.9779191>

Development and experimental assessment of a flexible robot fin

Gkliva, Roza; Sfakiotakis, Michael; **Kruusmaa, Maarja** 2018 IEEE International Conference on Soft Robotics (RoboSoft) : proceedings 2018 / p. 208-213 : ill <https://doi.org/10.1109/ROBOSOFT.2018.8404921>

Development and testing of a compact voice command recognition algorithm for limited complexity microcontroller devices

Udal, Andres; **Riid, Andri**; **Jaanus, Martin**; **Pärnamets, Kaiser**; Lokuta, Madis 2018 22nd International Conference Electronics : Palanga, Lithuania, 18-20 June 2018 2018 / p. 1-4 : ill <http://doi.org/10.1109/ELECTRONICS.2018.8443645>

Development case study of the first Estonian self-driving car, ISEAUTO

Rassõlkin, Anton; **Sell, Raivo**; **Leier, Mairo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 81-88 : ill <https://doi.org/10.2478/ecce-2018-0009>

A DFT scheme to improve coverage of hard-to-detect faults in FinFET SRAMs

Cardoso Medeiros, Guilherme; **Gürsoy, Cemil Cem**; Fieback, Moritz; Wu, Lizhou; **Jenihhin, Maksim**; Taouil, Mottaqiallah; Hamdioui, Said 2020 Design, Automation & Test in Europe Conference & Exhibition (DATE), 9-13 March 2020, Grenoble, France : proceedings 2020 / p. 792-797 <https://doi.org/10.23919/DATE48585.2020.9116278>

Diagnosing DoS attacks in NoC-based MPSoCs

Chaves Arroyave, Cesar Giovanni; **Azad, Siavoosh Payandeh**; **Hollstein, Thomas**; Sepulveda, Johanna Testmethoden und Zuverlässigkeit von Schaltungen und Systemen, TUZ 2019 2019 / p. [39–41] <https://www.researchgate.net/publication/333756736>

Differential pressure sensor speedometer for autonomous underwater vehicle velocity estimation

Meurer, Christian; **Francisco Fuentes-Perez, Juan**; Palomeras, Narcis; **Carreras, Marc**; **Kruusmaa, Maarja** IEEE Journal of Oceanic Engineering 2020 / p. 946 - 978 <https://doi.org/10.1109/JOE.2019.2907822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Differential pressure sensors for underwater speedometry in variable velocity and acceleration conditions

Fuentes-Perez, Juan Francisco; **Meurer, Christian**; **Tuhtan, Jeffrey Andrew**; **Kruusmaa, Maarja** IEEE Journal of Oceanic Engineering 2018 / p. 418-426 : ill <https://doi.org/10.1109/JOE.2017.2767786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digitaalsed kaksikud teevad säästlikust energiatarbimisest võistluse [Võrguväljaanne]

Harrik, Airika novaator.err.ee 2021 / fot [Digitaalsed kaksikud teevad säästlikust energiatarbimisest võistluse](#)

Digital realization of retuning fractional-order controllers for an existing closed-loop control system

Tepljakov, Aleksei; **Petlenkov, Eduard**; Gonzalez, Emmanuel A.; **Belikov, Juri** Journal of circuits, systems, and computers 2017 / art. 1750165, p. 1-26 <https://doi.org/10.1142/S0218126617501651> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digital twin based learning from demonstration system for industrial robots

Bondarenko, Yevhen; **Pizzagalli, Simone Luca**; **Kuts, Vladimir**; **Petlenkov, Eduard**; **Otto, Tauno** ASME 2023 International Mechanical Engineering Congress and Exposition (IMECE2023) : proceedings. Vol. 3 2024 / art. IMECE2023-113240, V003T03A081 <https://doi.org/10.1115/IMECE2023-113240>

Digital twin simulations based reinforcement learning for navigation and control of a wheel-on-leg mobile robot

Alsaleh, Saleh Ragheb Saleh; **Tepljakov, Aleksei**; **Tamre, Mart**; **Kuts, Vladimir**; **Petlenkov, Eduard** Proceedings of ASME 2022 International Mechanical Engineering Congress and Exposition (IMECE2022), 2B: Columbus, Ohio, USA, October 30 - November 3, 2022 2022 / art. IMECE2022-95411, V02BT02A025, 8 p <https://doi.org/10.1115/IMECE2022-95411>

Digital twins in extended reality for control system applications

Jeršov, Stanislav; Tepļjakov, Aleksei 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 / art. 162353, p. 274-279 <https://doi.org/10.1109/TSP49548.2020.9163557>

Digitalization and real-time control to mitigate environmental impacts along rivers: focus on artificial barriers, hydropower systems and European priorities

Quaranta, Emanuele; Bejarano, Maria Dolores; Comoglio, Claudio; Fuentes-Pérez, Juan Francisco; Pérez-Díaz, Juan Ignacio; Sanz-Ronda, Francisco Javier; **Schletterer, Martin**; Szabo-Meszaros, Marcell; **Tuhtan, Jeffrey Andrew** Science of the total environment 2023 / 22 p. : ill <https://www.sciencedirect.com/science/article/pii/S0048969723011051> <https://doi.org/10.1016/j.scitotenv.2023.162489> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Distributed DoS detection scheme for NoC-based MPSoCs

Chaves Arroyave, Cesar Giovanni; Azad, Siavoosh Payandeh; Hollstein, Thomas; Sepulveda, Johanna 2018 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC) : 30-31 October 2018, Tallinn, Estonia : proceedings in IEEE Xplore 2018 / 6 p. : ill <https://doi.org/10.1109/NORCHIP.2018.8573524>

Disturbance propagation in vehicle platoons : symmetric bidirectional interconnections

Farnam, Arash; Farsi, Milad; **Ghorbani, Majid**; Azad, Nasser Lashgarian; Crevecoeur, Guillaume 2024 American Control Conference (ACC) : July 8-12, 2024, Toronto 2024 / p. 408-413 <https://doi.org/10.23919/ACC60939.2024.10644505> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Diver tracking in open waters : a low-cost approach based on visual and acoustic sensor fusion

Remmas, Mohamed Walid; Chemori, Ahmed; **Kruusmaa, Maarja** Journal of field robotics 2021 / p. 494-508 <https://doi.org/10.1002/rob.21999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Do cyprinid fish use lateral flow-refuges during hydropeaking?

Boavida, Isabel; Costa, Maria Joao; Portela, Maria Manuela; Godinho, Francisco; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N. River research and applications 2023 / p. 554-560 <https://doi.org/10.1002/rra.3863> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

DocOnTap : AI-based disease diagnostic system and recommendation system

Abideen, Zain Ul; Khan, Talha Ali; Ali, Raja Hashim; Ali, Nisar; Baig, Muhammad Muneeb; Ali, Muhammad Sajid 17th International Conference on Emerging Technologies (ICET), Swabi, Pakistan, 29-30 November 2022 2022 / p. 148-153 <https://doi.org/10.1109/ICET56601.2022.10004621>

Doktorikraad annab juhiloa, mitte töökohta

Kruusmaa, Maarja Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2016 2017 / lk. 68-71 : fot http://www.ester.ee/record=b1218094*est

Dokoritöö aitab droone kuulekamaks muuta

Reimann, Andres novaator.err.ee 2023 [Dokoritöö aitab droone kuulekamaks muuta](#) <https://digikogu.taltech.ee/et/Item/17167e2e-2c31-451c-834d-1da98160b2ce>

DoS attack detection and path collision localization in NoC-based MPSoC architectures

Chaves Arroyave, Cesar Giovanni; Azad, Siavoosh Payandeh; Hollstein, Thomas; Sepulveda, Johanna Journal of low power electronics and applications 2019 / art. 7, 20 p. : ill <https://doi.org/10.3390/jlpea9010007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study

Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery**; **Petlenkov, Eduard** 2018 IEEE 15th International Workshop on Advanced Motion Control (AMC 2018) 2018 / p. 523-528 : ill [Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study](#)

Dynamic and distributed security management for NoC Based MPSoCs

Azad, Siavoosh Payandeh; Jervan, Gert; Sepulveda, Johanna Computational Science - ICCS 2019 : 19th International Conference, Faro, Portugal, June 12-14, 2019 : Proceedings, Part II 2019 / p. 649-662 : ill https://doi.org/10.1007/978-3-030-22741-8_4 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Dynamic modeling of networks, microgrids, and renewable sources in the dq0 reference frame : a survey

Baimel, Dmitry; **Belikov, Juri**; Guerrero, Joseph M.; Levron, Yoash IEEE Access 2017 / p. 21323-21335 : ill <https://doi.org/10.1109/ACCESS.2017.2758523> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic modelling of a screw actuator for improved locomotion control on various terrains

Remmas, Mohamed Walid; **Gkliva, Roza**; **Ristolainen, Asko** EGU General Assembly 2022 2022 / EGU22-5726 <https://doi.org/10.5194/egusphere-egu22-5726>

Dynamic predictive modeling approach of user behavior in virtual reality based application

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard 2019 27th Mediterranean Conference on Control and Automation (MED) 2019 / p. 57-62 : ill <https://doi.org/10.1109/MED.2019.8798521>

Dynamics Modeling and Optimization of Locally Resonant Metastructures for Vibration Suppression and Energy Harvesting = Dünaamiline modelleerimine ja optimeerimine kohalikult resonantsete metastruktuuride jaoks vibratsiooni summutamiseks ja energia kogumiseks

Alimohammadi, Hossein 2025 https://www.ester.ee/record=b5767448*est <https://digikogu.taltech.ee/et/Item/06e0647d-9b4e-4151-a6e6-364daf9a2937> <https://doi.org/10.23658/taltech.79/2025>

Early RTL analysis for SCA vulnerability in fuzzy extractors of memory-based PUF enabled devices

Lai, Xinhui; Jenihhin, Maksim; Selims, Georgios arXiv.org 2020 / 6 p. : ill <https://doi.org/10.48550/arXiv.2008.08409>
<https://arxiv.org/abs/2008.08409>

Ecohydraulics of non-uniform flows in Vertical Slot Fishways

Branco, Paulo; Fuentes-Pérez, Juan Francisco; Eckert, Mario; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 183 https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf

Ecohydraulics of river flow alterations and impacts on freshwater fish

Boavida, Isabel; Díaz-Redondo, Maria; Fuentes-Pérez, Juan Francisco; Hayes, Daniel S.; Jesus, Joaquim; Moreira, Miguel; Belmar, Oscar; Vila-Martínez, Núria; Palau-Nadal, Antoni; Costa, Maria João Limnetica 2020 / p. 213-232
<https://doi.org/10.23818/limn.39.14> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EcoPeak4Fish : a multidisciplinary project targeting the protection of fish populations affected by hydropeaking

Boavida, Isabel; Santos, Jose Maria; Costa, Maria Joao; Leite, Renan; Merianne, Anthony; Portela, Maria Manuela; Godinho, Francisco; Leitao, Pedro; Mota, Rui; Tuhtan, Jeffrey Andrew; Pinheiro, Antonio N. Biology and life sciences forum 2022 / p. 85
<https://doi.org/10.3390/blsf2022013085>

ECS an endeavor towards providing similar cache reliability behavior in different programs

Ahmadilivani, Mohammad Hasan; Jahromi, Mohammad Moeini; Salehi, Mostafa E.; Kargar, Mona Microelectronics Reliability 2024 / art. 115295 <https://doi.org/10.1016/j.microrel.2023.115295> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
[Article at WOS](#)

Edge intelligence resource consumption by UAV-based IR object detection

Polukhin, Andrii; Gordienko, Yuri; Leier, Mairo; Jervan, Gert; Rokovyi, Oleksandr; Alienin, Oleg; Stirenko, Sergii UAVM '23 : proceedings of the 2023 Workshop on UAVs in multimedia : capturing the world from a new perspective 2023 / p. 57-61
<https://doi.org/10.1145/3607834.3616566>

Edge-to-Fog collaborative computing in a swarm of drones

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim Advances in Model and Data Engineering in the Digitalization Era : MEDI 2021 International Workshops: DETECT, SIAS, CSMML, BIOC, HEDA, Tallinn, Estonia, June 21–23, 2021 : proceedings 2021 / p. 78–87 https://doi.org/10.1007/978-3-030-87657-9_6 [Conference Proceedings at Scopus](#)
[Article at Scopus](#)

EEG functional connectivity detects seasonal changes

Päeske, Laura; Bachmann, Maie; Raik, Jaan; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 237-240 https://doi.org/10.1007/978-981-10-9038-7_44 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

EEG spectral asymmetry index detects differences between leaders and non-leaders

Pöld, Toomas; Bachmann, Maie; Orgo, Laura; Kalev, Kaia; Lass, Jaanus; Hinrikus, Hiie EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 17-20 https://doi.org/10.1007/978-981-10-5122-7_5 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

EEG spectral asymmetry is dependent on education level of men

Pöld, Toomas; Bachmann, Maie; Päeske, Laura; Kalev, Kaia; Lass, Jaanus; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 405–408
https://doi.org/10.1007/978-981-10-9038-7_76 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Eesti teadlased loodavad panna putukrobotile pähe tehisaru

Raik, Jaan novaator.err.ee 2024 [Eesti teadlased loodavad panna putukrobotile pähe tehisaru](#) [Эстонские ученые создают робота-насекомого с искусственным интеллектом](#)

Eesti teadlaste kaamerasüsteem teeb kalaseires revolutsiooni

Nagu kala vees – tehisintellekt jõgedes

Vaaks, Eveliis postimees.ee 2024 [Nagu kala vees – tehisintellekt jõgedes Eesti teadlaste kaamerasüsteem teeb kalaseires revolutsiooni](#)

Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda [Võrguväljaanne]

Tuhtan, Jeffrey Andrew novaator.err.ee 2020 / fot [Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda](#)

Eesti teaduse nähtamatud hiiglased

Raik, Jaan Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 161-168 : ill., fot https://www.ester.ee/record=b5208765*est

Eesti tehisaru teadlased: tulevikus «mõistab» maja elaniku mõtteid ja soove

postimees.ee 2024 <https://teadus.postimees.ee/8099095/eesti-tehisaru-teadlased-tulevikus-moistab-maja-elaniku-motteid-ja-soove>

Eesti tippteadlane esineb neljapäeval Euroopa suurel kriisiteemalisel sümpoosionil

postimees.ee 2023 [Eesti tippteadlane esineb neljapäeval Euroopa suurel kriisiteemalisel sümpoosionil](#)

Eesti vajab uusi teadlasi

Jervan, Gert Postimees 2021 / Lk. 13 <https://dea.digar.ee/article/postimees/2021/06/17/12.6>

Eestis arendati välja pördajalne robot

Godon, Simon Pierre Imeline Teadus 2025 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

Effectiveness of Vertical Slot Fishways under experimental non-uniform flows

Eckert, Mario; Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 195 https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf

An efficient analog convolutional neural network hardware accelerator enabled by a novel memoryless architecture for insect-sized robots

Dadras, Iman; Ahmadilivani, Mohammad Hasan; Banerji, Saoni; Raik, Jaan; Abloo, Alvo 2022 11th International Conference on Modern Circuits and Systems Technologies (MOCASST) : Bremen, Germany : 08-10 June 2022 / p. 1-6 <https://doi.org/10.1109/MOCASST54814.2022.9837551>

Efficient Deep Learning Model Optimization for Resource Constrained Devices = Tõhus süvaõppe mudeli optimeerimine piiratud ressurssidega seadmete jaoks

Ademola, Olutosin Ajibola 2025 https://www.ester.ee/record=b5750529*est <https://digikogu.taltech.ee/et/item/183f6305-2924-4e30-a7cc-d06ac86581b8> <https://doi.org/10.23658/taltech.37/2025>

Efficient fault injection based on dynamic HDL slicing technique

Bagbaba, Ahmet Cagri; Jenihhin, Maksim; Raik, Jaan; Sauer, Christian 2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS 2019) : 1-3 July 2019, Greece 2019 / p. 52-53 : ill <https://doi.org/10.1109/IOLTS.2019.8854419>

An efficient feature-based method for people counting

Helmer, Daniel; Hinkelmann, Heiko; Hollstein, Thomas SAC '23: Proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing 2023 / p. 852 - 855 <https://doi.org/10.1145/3555776.3577801>

An efficient FPGA-based architecture for contractive autoencoders

Kerner, Madis; Tammemäe, Kalle; Raik, Jaan; Hollstein, Thomas 2020 IEEE 28th Annual International Symposium on Field-Programmable Custom Computing Machines (FCCM), 3 – 6 May 2020, Fayetteville, Arkansas : proceedings 2020 / p. 230–230 <https://doi.org/10.1109/FCCM48280.2020.00062>

Efficient methodology for ISO26262 functional safety verification

Augusto da Silva, Felipe; Bagbaba, Ahmet Cagri; Hamdioui, Said; Sauer, Christian 2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS), 1-3 July 2019, Rhodes, Greece 2019 / p. 255-256 <https://doi.org/10.1109/IOLTS.2019.8854449>

Efficient on-device transfer learning using activation memory reduction

Yoosefi, Amin; Mousavi, Hamid; Daneshtalab, Masoud; Kargahi, Mehdi 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 210-215 <https://doi.org/10.1109/FMEC59375.2023.10306182>

Ein Fisch ist kein Punkt: Analyse von Strömungssignaturen in Fischaufstiegsanlagen mit einem Seitenlinien Sensor

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Schneider, Matthias; Schletterer, Martin Wasserwirtschaft 2018 / S. 48-53 : Ill <https://doi.org/10.1007/s35147-018-0015-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Einleitung : Ethologie und Hydraulik – wozu wird das benötigt?

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 1-9 https://doi.org/10.1007/978-3-658-32824-5_1

ELC-ECG: efficient LSTM cell for ECG classification based on quantized architecture

Mirsalari, Seyed Ahmad; Nazari, Najmeh; Ansarmohammadi, Seyed Ali; Sinaei, Sima; Salehi, Mostafa E.; **Daneshtalab, Masoud** 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401261> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Electronics design and testing of the CMS Fast Beam Condition Monitor for HL-LHC

Shibin, Konstantin; Auzinger, Georg; Bakhshiansohi, Hamed; Dabrowski, Anne; Dierlamm, Alexander; Dragicevic, Marko; Gholami, Asghar; Gomez, Gervasio; Guthoff, Moritz; Haranko, Mykyta; Honma, Alan; **Jenihhin, Maksim** Journal of physics : conference series 2023 / p. 50-51 <https://doi.org/10.48550/arXiv.2410.14867>

Elevator passenger in-cabin behaviour – a study on Smart-Elevator Platform

Basov, Kevin; Robal, Tarmo; Reinsalu, Uljana; **Leier, Mairo** Digital Business and Intelligent Systems : 15th International Baltic Conference, Baltic DB&IS 2022, Riga, Latvia, July 4-6, 2022 : proceedings 2022 / p. 3-18 : ill https://doi.org/10.1007/978-3-031-09850-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Elimination und Rückgewinnung von Phosphor aus Abwasser mit Hilfe wiederverwendbarer Nanokomposit-Magnetpartike

Ivanova Drenkova-Tuhtan, Asya Wasser 2019 : Jahrestagung der Wasserchemischen Gesellschaft, 27.-29. Mai 2019, Erfurt 2019 / S. 29–34 : ill <http://d-nb.info/1187972673>

Elimination und Rückgewinnung von Phosphor aus Abwasser mithilfe wiederverwendbarer Nanokomposit-Magnetpartikel

Ivanova Drenkova-Tuhtan, Asya Vom Wasser 2019 / S. 37–40 : ill <http://www.wasserchemische-gesellschaft.de/de/vom-wasser-das-journal/seiten/vom-wasser> https://www.researchgate.net/publication/333641738_Elimination_und_Ruckgewinnung_von_Phosphor_aus_Abwasser_mithilfe_wiederverwendbarer_Nanokomposit-Magnetpartikel

Elliptic-curve crypto processor for RFID applications

Rashid, Muhammad; Jamal, Sajjad Shaukat; Khan, Sikandar Zulqarnain; Alharbi, Adel R.; Aljaedi, Amer; **Imran, Malik** Applied Sciences (Switzerland) 2021 / art. 7079 <https://doi.org/10.3390/app11157079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Elus, surnud ja merel : Meri toob inimeses välja juba muinasmõttelejate kirjeldatud kolmanda oleku, leiab allveetehnoloog Maarja Kruusmaa

Kruusmaa, Maarja Postimees 2020 / Lk. 14 : fot https://heureka.postimees.ee/6863788/elus-surnud-ja-merel-antarktika-reis-toob-inimeses-esile-urgse-oleku?_ga=2.78530071.248236587.1578296660-1045332091.1401712292 https://www.ester.ee/record=b1072778*est

Embedded instrumentation toolbox for screening marginal defects and outliers for production

Odintsov, Sergei; Jutman, Artur; Devadze, Sergei; **Aleksejev, Igor** IEEE AUTOTESTCON 2017 : Schaumburg, USA, Sept 11-14, 2017 : proceedings 2017 / p. 336-334 : ill <https://doi.org/10.1109/AUTEST.2017.8080516>

Embedded software performance estimations at different compiler optimisation levels

Ruberg, Priit; Lass, Keijo; Liiv, Elvar; **Ellervee, Peeter** Advances in Information, Electronic and Electrical Engineering (AIEEE) : proceedings of the 5th IEEE Workshop, november 24-25, 2017, Riga, Latvia 2017 / p. 1-6 : ill <https://doi.org/10.1109/AIEEE.2017.8270530>

Emerging role of industry 5.0 digital twins in demand response electricity market and applications

Onile, Abiodun Emmanuel; Belikov, Juri; **Petlenkov, Eduard**; Levron, Yoash IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 6 p <https://doi.org/10.1109/ISGTEUROPE56780.2023.10407322>

Employing channel probing to derive end-of-life service margins for optical spectrum services

Kaeval, Kaida; Slyne, Frank; Troia, Sebastian; Kenny, Eoin; Grobe, Klaus; Griesser, Helmut; Kilper, Daniel C.; Ruffini, Marco; Pedreno-Manresa, Jose-Juan; Patri, Sai Kireet; **Jervan, Gert** Journal of optical communications and networking 2023 / p. C63-C73 : ill <https://doi.org/10.1364/JOCN.480080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enabling cross-layer reliability and functional safety assessment through ML-based compact models

Alexandrescu, Dan; **Balakrishnan, Aneesh**; Lange, Thomas; Glorieux, Maximilien Proceedings : 2020 26th IEEE International Symposium on On-Line Testing and Robust System Design : IOLTS 2020, Napoli, Italy, July 13-16, 2020 : virtual edition 2020 / 6 p. : ill <https://doi.org/10.1109/IOLTS50870.2020.9159750>

Enabling secure MPSoC dynamic operation through protected communication

Azad, Siavoosh Payandeh; Niazmand, Behrad; **Jervan, Gert**; Sepulveda, Johanna 2018 25th IEEE International Conference on Electronics Circuits and Systems (ICECS), Bordeaux, France, December 9–12, 2018 2018 / p. 481-484 : ill <https://doi.org/10.1109/ICECS.2018.8617940>

End-to-end Timing Model Extraction from TSN-Aware Distributed Vehicle Software

Houtan, Bahar; Aybek, Mehmet Onur; Ashjaei, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Mubeen, Saad 48th Euromicro Conference on Software Engineering and Advanced Applications : SEAA 2022 : proceedings 2022 / p. 366-369
<https://doi.org/10.1109/SEAA56994.2022.00064>

End-to-end timing modeling and analysis of TSN in component-based vehicular software

Houtan, Bahar; Aybek, Mehmet Onur; Ashjaei, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Lundbäck, John; Mubeen, Saad 2023 IEEE 26th International Symposium on Real-Time Distributed Computing (ISORC) 2023 / p. 126-135
<https://doi.org/10.1109/ISORC58943.2023.00025>

Energiainformaatika: energia ja infotehnoloogia ühinemine

Petlenkov, Eduard; Belikov, Juri Elektriala 2023 / lk. 12-13 : ill., portr https://www.ester.ee/record=b1240496*est

Energy consumption and performance estimation of embedded software = Sardtarkvara energiatarbe ja jõudluse ennustamine

Ruberg, Priit 2018 <https://digi.lib.ttu.ee/i/?10704> https://www.ester.ee/record=b5152952*est

Energy consumption characteristics based on monitored data : a school case study

Vassiljeva, Kristina; Matson, Margarita; Petlenkov, Eduard; Belikov, Juri; Thalfeldt, Martin; Kurnitski, Jarek CLIMA 2022 : REHVA 14th HVAC World Congress 22nd-25th May in Rotterdam, The Netherlands 2022 / 5 p. : ill
<https://doi.org/10.34641/clima.2022.274>

Energy efficient behavior modeling for demand side recommender system in solar microgrid applications using multi-agent reinforcement learning model

Onile, Abiodun Emmanuel; Belikov, Juri; Levron, Yoash; **Petlenkov, Eduard** Sustainable cities and society 2023 / art. 104392, 20 p. : ill <https://doi.org/10.1016/j.scs.2023.104392> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy saving in centrifugal pumps using mutual pressure and flowrate control

Serbin, Aleksandr; **Petlenkov, Eduard**; Vodovozov, Valery 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill
<http://dx.doi.org/10.1109/RTUCON.2017.8124805>

Energy storage and forecasting error impact analysis in photovoltaic equipped residential nano-grids

Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Belikov, Juri; Vinnikov, Dmitri; **Petlenkov, Eduard** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p.
<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227406>

Energy-efficient multi-fragment Markov model guided online model-based testing for MPSoC

Vain, Jüri; Tsiopoulos, Leonidas; Kharchenko, Vyacheslav; Apneet Kaur; Jenihhin, Maksim; Raik, Jaan; Nömm, Sven Green IT Engineering: Social, Business and Industrial Applications 2019 / p. 273-297 https://doi.org/10.1007/978-3-030-00253-4_12 [Article collection at Scopus](#) [Article at Scopus](#)

Energy-efficient operation of linear Delta robots with an artificial intelligence model

Vodovozov, Valery; Raud, Zoja; **Petlenkov, Eduard**; Semjonova, Natalia 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p <https://doi.org/10.1109/BEC61458.2024.10737977> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Engineering of an effective automatic dynamic assertion mining platform

Ghasempouri, Tara; Malburg, Jan; Danese, Alessandro; Pravadelli, Graziano; Fey, Goerschwin; **Raik, Jaan** VLSI-SoC 2019 : 27th IFIP/IEEE International Conference on Very Large Scale Integration : [proceedings] 2019 / p. 111-116 : ill <https://doi.org/10.1109/VLSI-SoC.2019.8920331>

An enhanced NN-based load frequency control design of MGs : a fractional order modeling method

Škiparev, Vjatšeslav; Nosrati, Komeil; Belikov, Juri; Tepļakov, Aleksei; **Petlenkov, Eduard** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227392>

Enhancing assertion-based verification in hardware designs through data mining algorithms = Andmekaeve algoritmid kasutamine riistvarasüsteemide väidete-põhise verifitseerimise parendamiseks

Heidari Iman, Mohammad Reza 2024 <https://digikogu.taltech.ee/et/Item/622f3660-e890-454d-aa85-7cc505557f77>
<https://doi.org/10.23658/taltech.37/2024> https://www.ester.ee/record=b5694015*est

Enhancing bandgap depth in locally resonant metastructures via notch-filtered piezoelectric actuation

Alimohammadi, Hossein; Vassiljeva, Kristina; Hosseinia Kani, Seyed Hassan; **Petlenkov, Eduard** 2024 IEEE International Conference on Industrial Technology (ICIT) 2024 <https://doi.org/10.1109/ICIT58233.2024.10540976> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Enhancing fault resilience of QNNs by selective neuron splitting

Ahmadilivani, Mohammad Hasan; Taheri, Mahdi; Raik, Jaan; Daneshtalab, Masoud; Jenihhin, Maksim 2023 IEEE 5th International Conference on Artificial Intelligence Circuits and Systems (AICAS) 2023 / 5 p. : ill <https://doi.org/10.1109/AICAS57966.2023.10168633>

Enhancing global model performance in federated learning with non-IID data using a data-free generative diffusion model

Najafi, Mohammadreza; Daneshtalab, Masoud; Lee, Jeong-A; Saadloon, Ghazal; Shin, Seokjoo IEEE Access 2024 / p. 148230-148239 : ill <https://doi.org/10.1109/ACCESS.2024.3474056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing semantics-driven recommender systems with visual features

Bendouch, Mounir M.; Frasin, Flavius; Robal, Tarmo Advanced Information Systems Engineering 34th International Conference, CAISE 2022, Leuven, Belgium, June 6-10, 2022, Proceedings 2022 / p. 443-459 https://doi.org/10.1007/978-3-031-07472-1_26 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Enhancing university visitor satisfaction : a human-robot interaction study on the design and perception of a guiding robot assistant

Leoste, Janika; Marmor, Kristel; Hollstein, Thomas; Hinkelmann, Heiko; Leoste, Leo Benjamin Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 223-234 https://doi.org/10.1007/978-3-031-67059-6_20 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Ensemble of Tensor Train Decomposition and Quantization Methods for Deep Learning Model Compression

Ademola, Olutosin Ajibola; Petlenkov, Eduard; Leier, Mairo 2022 International Joint Conference on Neural Networks (IJCNN) 2022 <https://doi.org/10.1109/IJCNN55064.2022.9892626> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Environment for innovative university research training in the field of digital test

Oyeniran, Adeboye Stephen; Ademilua, Tolulope; Kruus, Margus; Ubar, Raimund-Johannes 2021 30th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEEIE) 2021 <https://doi.org/10.1109/EAEEIE50507.2021.9531003>

Environmentally adaptive fish or no-fish classification for river video fish counters using high-performance desktop and embedded hardware

Soom, Jürgen; Pattanaik, Vishwajeet; Leier, Mairo; Tuhtan, Jeffrey Andrew Ecological Informatics 2022 / art. 101817, 14 p. : ill <https://doi.org/10.1016/j.ecoinf.2022.101817> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Equivalent transformations of structurally synthesized BDDs and applications

Jürimägi, Lembit; Ubar, Raimund-Johannes; Viies, Vladimir 2019 8th Mediterranean Conference on Embedded Computing (MECO) 2019 / 6 p. : ill <https://doi.org/10.1109/MECO.2019.8760283>

Estimating fish swimming speed using non-invasive backpack sensors in a laboratory flume at high flow velocities

Kopecki, Iana; Tuhtan, Jeffrey Andrew; Wagner, Falko; Roessger, Tom; Hägele, Tobias; Schneider, Matthias; Hoerner, Stefan Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / 1 p. https://www.sjweb.de/pdf/ISE_QuebecBackpackSensors_FishSpeed.pdf

Estimating quality of transmission in a live production network using machine learning

Müller, Jasper; Fehenberger, Tobias; Patri, Sai Kireet; Kaival, Kaida; Griesser, Helmut; Tikas, Marko; Elbers, Jörg-Peter 2021 Optical Fiber Communications Conference and Exhibition (OFC) : 6-10 June 2021 : San Francisco, CA, USA 2021 / paper Tu1G.2, 3 p <https://ieeexplore.ieee.org/abstract/document/9489940>

Estimation of flow turbulence metrics with a lateral line probe and regression

Chen, Ke; Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Musall, Mark; Strokina, Nataliya; Kämäräinen, Joni-Kristian; Kruusmaa, Maarja IEEE transactions on instrumentation and measurement 2017 / p. 651-660 : ill <https://doi.org/10.1109/TIM.2017.2658278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ethohydraulics : a method for nature-compatible hydraulic engineering

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; Tuhtan, Jeffrey Andrew 2022 <https://doi.org/10.1007/978-3-658-35416-9>

Ethohydraulik : Eine Methode für naturverträglichen Wasserbau

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; Tuhtan, Jeffrey Andrew 2021 <https://doi.org/10.1007/978-3-658-32824-5>

Evaluating architectural, redundancy, and implementation strategies for radiation hardening of FinFET integrated circuits

Pagliari, Samuel Nascimento; Benites, Luis; Martins, Mayler; Rech, Paolo; Kastensmidt, Fernanda IEEE transactions on nuclear science 2021 / p. 1045-1053 <https://doi.org/10.1109/TNS.2021.3070643> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluating NTT/INTT implementation styles for post-quantum cryptography

Imran, Malik; Khan, Safiullah; Khalid, Ayesha; Rafferty, Ciara; Ali Shah, Yasir; Pagliarini, Samuel; Rashid, Muhammad; O'Neill, Maire
IEEE Embedded Systems Letters 2024 / p. 485 - 488 <https://doi.org/10.1109/LES.2024.3410516> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluating the energy readiness of national building stocks through benchmarking

Ferrantelli, Andrea; Belikov, Juri; Petlenkov, Eduard; Thalfeldt, Martin; Kurnitski, Jarek IEEE Access 2022 / p. 45430-45443 :
ill <https://doi.org/10.1109/ACCESS.2022.3170716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluating the robustness of ML models to out-of-distribution data through similarity analysis

Lindén, Joakim; Forsberg, Håkan; **Daneshmand, Masoud;** Söderquist, Ingemar New Trends in Database and Information Systems; ADBIS 2023 Short Papers, Doctoral Consortium and Workshops: AIDMA, DOING, K-Gals, MADEISD, PeRS, Barcelona, Spain, September 4–7, 2023, Proceedings 2023 / p. 348 - 359 https://doi.org/10.1007/978-3-031-42941-5_30

Evaluation of deep neural network compression methods for edge devices using weighted score-based ranking scheme

Ademola, Olutosin Ajibola; Leier, Mairo; Petlenkov, Eduard Sensors 2021 / art. 7529 <https://doi.org/10.3390/s21227529> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Event-based control for differentially flat systems: application to autonomous underwater vehicle

Kaldmäe, Arvo; Kotta, Ülle; Meurer, Christian; Simha, Ashutosh IFAC-PapersOnLine 2019 / p. 180-185
<https://doi.org/10.1016/j.ifacol.2019.11.775> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Event-triggered resilient distributed extended Kalman filter with consensus on estimation

Rezaei, Hossein; **Ghorbani, Majid** International Journal of Robust and Nonlinear Control 2022 / p. 1303 - 1315
<https://doi.org/10.1002/rnc.5881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An evolutionary field theorem : evolutionary field optimization in training of power-weighted multiplicative neurons for nitrogen oxides-sensitive electronic nose applications

Alagoz, Baris Baykant; Simsek, Ozlem Imik; Ari, Davut; **Tepljakov, Aleksei;** Petlenkov, Eduard; Alimohammadi, Hossein
Sensors 2022 / art. 3836 <https://doi.org/10.3390/s22103836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exact parallel critical path fault tracing to speed-up fault simulation in sequential circuits

Kõusaar, Jaak; Ubar, Raimund-Johannes; Kostin, Sergei; Devadze, Sergei; Raik, Jaan International journal of microelectronics and computer science 2018 / p. 9–18 <https://ijmcs.dmcsl.pl/web/guest/vol.-9-no.-1>
https://ijmcs.dmcsl.pl/documents/10630/345460/IJMCS_1_2018_2.pdf

An exhaustive multi-aspect analysis of swarm intelligence algorithms in numerical association rule mining

Kaushik, Minakshi; Sharma, Rahul; Koiva, Pilleriin; Fister, Iztok; Draheim, Dirk IEEE Access 2024 / p. 138985 - 139002
<https://doi.org/10.1109/ACCESS.2024.3417334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The experience of a selfassessment tool for enhancing XR technology adoption in SMEs and HEIs across Europe

Köse, Ahmet; Tepljakov, Aleksei; Alsaleh, Saleh Ragheb Saleh; Petlenkov, Eduard Extended Reality: International Conference, XR Salento 2023, Lecce, Italy, September 6-9, 2023, Proceedings, Part I 2023 / p. 184-197 https://doi.org/10.1007/978-3-031-43401-3_12 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Experimental demonstration of ML-based DWDM system margin estimation

Müller, Jasper; Slyne, Frank; **Kaeval, Kaida;** Troia, Sebastian; Fehenberger, Tobias; Elbers, Jörg-Peter; Kilper, Daniel C.; Ruffini, Marco; Mas-Machuca, Carmen Optical Fiber Communications Conference and Exhibition, OFC 2023 : Proceedings 2023 / paper Tu2F.2., 3 p. : ill <https://opg.optica.org/abstract.cfm?URI=OFC-2023-Tu2F.2>

An experimental study of building blocks of lattice-based NIST post-quantum cryptographic algorithms

Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento Electronics 2020 / art. 1953, 26 p. : ill
<https://doi.org/10.3390/electronics9111953> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experiments with LLMs for converting language to logic

Tammet, Tanel; Järv, Priit; Verrev, Martin; Draheim, Dirk Neural-Symbolic Learning and Reasoning : 18th International Conference, NeSy 2024, Barcelona, Spain, September 9–12, 2024, Proceedings, Part II 2024 / p. 305 - 314
https://doi.org/10.1007/978-3-031-71170-1_24 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Explainability and transparency of classifiers for air-handling unit faults using explainable artificial intelligence (XAI)

Meas, Molika; Machlev, Ram; Köse, Ahmet; Tepljakov, Aleksei; Loo, Lauri; Levron, Yoash; Petlenkov, Eduard; Belikov, Juri
Sensors 2022 / art. 6338 : ill <https://doi.org/10.3390/s22176338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Explainable AI based fault detection and diagnosis system for air handling units

Belikov, Juri; Meas, Molika; Machlev, Ram; **Köse, Ahmet; Tepljakov, Aleksei;** Loo, Lauri; **Petlenkov, Eduard;** Levron, Yoash
Proceedings of the 19th International Conference on Informatics in Control, Automation and Robotics - ICINCO, 2022 , Lisbon,
Portugal 2022 / p. 271-279 <https://doi.org/10.5220/0011350000003271>

Exploration of Activation Fault Reliability in Quantized Systolic Array-Based DNN Accelerators

Taheri, Mahdi; Cherezova, Natalia; Ansari, Mohammad Saeed; **Jenihhin, Maksim;** Mahani, Ali; **Daneshtalab, Masoud; Raik, Jaan** 25th International Symposium on Quality Electronic Design (ISQED) 2024 / 8 p. : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10528372> <https://doi.org/10.1109/ISQED60706.2024.10528372> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Exploring channel probing to determine coherent optical transponder configurations in a long-haul network

Kaeval, Kaida; Rafique, Danish; Blawat, Kamil; Grobe, Klaus; Griesser, Helmut; Elbers, Jörg-Peter; Rydlichowski, Piotr; Binczewski, Artur; Tikas, Marko 2020 Optical Fiber Communications Conference and Exhibition (OFC) : San Diego, California, USA : 8-12 March 2020 : proceedings 2020 / 3 p <https://ieeexplore.ieee.org/document/9083392>

Exploring deep learning based object detection architectur

Saddique, Muhammad Saddique; Raza, Ahsan; **Abideen, Zain Ul;** Khan, Shah Nawaz 2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST), Islamabad, Pakistan, 2020 2020 / p. 255-259
<https://doi.org/10.1109/IBCAST47879.2020.9044558>

Exploring factors in a crossroad dataset using cluster-based association rule mining

Shahin, Mahtab; Heidari Iman, Mohammad Reza; Kaushik, Minakshi; Sharma, Rahul; Ghasempouri, Tara; Draheim, Dirk Procedia computer science 2022 / p. 231-238 : ill <https://doi.org/10.1016/j.procs.2022.03.032> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Exploring internally coupled resonator's dynamics and spatial variability in metamaterials for vibration suppression

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; **Petlenkov, Eduard** Active and Passive Smart Structures and Integrated Systems XVII 2024 / art. 1294614 <https://doi.org/10.1117/12.3024067> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Exploring service margins for optical spectrum services

Kaeval, Kaida; Slyne, Frank; Troia, Sebastian; Kenny, Eoin; Pedreno-Manresa, Jose-Juan; Patri, Sai Kireet; Grobe, Klaus; Kilper, Daniel C.; Ruffini, Marco; **Jervan, Gert** Proceedings European Conference on Optical Communication (ECOC 2022), 18-22 September 2022, Basel, Switzerland 2022 / art. Mo3B.4, 4 p <https://opg.optica.org/abstract.cfm?uri=ECEOC-2022-Mo3B.4>

Exploring the real-world challenges and efficacy of internal coupling in metastructures : an experimental perspective

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; **Ellervee, Peeter; Petlenkov, Eduard** 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET) 2024
<https://doi.org/10.1109/ICECET61485.2024.10698725> [Article at Scopus](#)

Exponential distribution of wave-driven near-bed water speeds under short-crested waves: a case study in the eastern Gulf of Riga, the Baltic Sea

Eelsalu, Maris; Piho, Laura; Aigars, Juris; Kelpšaitė-Rimkienė, Loreta; Kondrat, Vitalijus; **Kruusmaa, Maarja; Parnell, Kevin Ellis; Ristolainen, Asko;** Šakurova, Ilona; Skudra, Māris; Viška, Maija; **Soomere, Tarmo** Proceedings of the Estonian Academy of Sciences 2025 / p. 23-42 : map, ill <https://doi.org/10.3176/proc.2025.1.03>

Extended fractional singular Kalman filter

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard Applied mathematics and computation 2023 / art. 127950, 15 p. : ill <https://doi.org/10.1016/j.amc.2023.127950> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extended reality in power distribution grid : applications and future trends

Nosrati, Komeil; Alsaleh, Saleh; Tepljakov, Aleksei; Petlenkov, Eduard; Onile, Abiodun Emmanuel; Škiparev, Vjatšeslav; Belikov, Juri 27th International Conference on Electricity Distribution (CIRED 2023) : Rome, 12-15 June 2023 2023 / p. 3615 - 3619
<https://doi.org/10.1049/icp.2023.0788> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Extended reality technologies in small and medium-sized European industrial companies : level of awareness, diffusion and enablers of adoption

Jalo, Henri; Pirkkalainen, Henri; Torro, Osku; Pessot, Elena; Zangiacomi, Andrea; **Tepljakov, Aleksei** Virtual Reality 2022 / p. 1745 - 1761 <https://doi.org/10.1007/s10055-022-00662-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

FaCT-LSTM : fast and compact ternary architecture for LSTM recurrent neural networks

Mirsalari, Seyed Ahmad; Nazari, Najmeh; Sinaei, Sima; Salehi, Mostafa E.; **Daneshtalab, Masoud** IEEE design & test 2022 / p. 45-53 <https://doi.org/10.1109/MDAT.2021.3070245>

Fair and individualized project teamwork evaluation for an engineering course

Robal, Tarmo EAEEIE 2018 : 28th EAEEIE Annual Conference (EAEEIE), September 26th to 28th, 2018 2018 / 9 p. : ill
<http://doi.org/10.1109/EAEEIE.2018.8534256>

Fall detection and activity recognition system for usage in smart work-wear [Online resource]

Leier, Mairo; Jervan, Gert; Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600959>

FARMUR: fair adversarial retraining to mitigate unfairness in robustness

Mousavi, Seyed Ali; Mousavi, Hamid; Daneshtalab, Masoud Advances in Databases and Information Systems: 27th European Conference, ADBIS 2023, Barcelona, Spain, September 4–7, 2023 : proceedings 2023 / p. 133-145 https://doi.org/10.1007/978-3-031-42914-9_10 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Fast and fair computation offloading management in a swarm of drones using a rating-based federated learning approach

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim IEEE Access 2021 / p. 113832-113849 <https://doi.org/10.1109/ACCESS.2021.3104117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fast identification of true critical paths in sequential circuits

Ubar, Raimund-Johannes; Kostin, Sergei; Jenihhin, Maksim; Raik, Jaan; Jürimägi, Lembit Microelectronics reliability 2018 / p. 252-261 : ill <https://doi.org/10.1016/j.microrel.2017.11.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fast iterative circuits and RAM-based mergers to accelerate data sort in software/hardware systems

Sklyarov, Valery; Skliarova, Iuliia; Rjabov, Artjom; Sudnitsõn, Aleksander Proceedings of the Estonian Academy of Sciences 2017 / p. 323-335 : ill <https://doi.org/10.3176/proc.2017.3.07> http://www.eester.ee/record=b2355998*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fast processing of non-repeated values in hardware

Skliarova, Iuliia; Sklyarov, Valery; Sudnitsõn, Aleksander Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 74-77 : ill <https://doi.org/10.5755/j01.eie.23.3.18336> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

FastStereoNet : A fast neural architecture search for improving the inference of disparity estimation on resource-limited platforms

Loni, Mohammad; Zoljodi, Ali; Majd, Amin; Ahn, Byung Hoon; Daneshtalab, Masoud; Sjödin, Mikael; Esmaeilzadeh, Hadi IEEE Transactions on Systems, Man, and Cybernetics : Systems 2022 / p. 5222-5234 : ill <https://doi.org/10.1109/TSMC.2021.3123136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fault-aware performance assessment approach for embedded networks

Malburg, Jan; Janson, Karl; Raik, Jaan; Dannemann, Frank 2019 22nd International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS), Cluj-Napoca, Romania : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/DDECS.2019.8724670>

Fault-resilient NoC router with transparent resource allocation

Putkaradze, Tsotne; Azad, Siavoosh Payandeh; Niazmand, Behrad; Raik, Jaan; Jervan, Gert 12th International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC2017), July 12-14, 2017, Madrid, Spain : proceedings 2017 / 8 p. : ill <https://doi.org/10.1109/ReCoSoC.2017.8016161> <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8016161>

A fault-resistant architecture for AES S-box architecture

Taheri, Mahdi; Sheikhpour, Saeideh; Ansari, Mohammad Saeed; Mahani, Ali Journal of Applied Research in Electrical Engineering 2021 / p. 86-92 <https://doi.org/10.22055/jaree.2021.36230.1020>

Fault-tolerant control allocation for a bio-inspired underactuated AUV in the presence of actuator failures : design and experiments

Remmas, Mohamed Walid; Chemori, Ahmed; Kruusmaa, Maarja Ocean engineering 2023 / art. 115327, 10 p. : ill <https://doi.org/10.1016/j.oceaneng.2023.115327> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feasibility of a multi-tier cyber physical system as a self-aware entity

Tammemäe, Kalle; Hollstein, Thomas AmiES-2017 : Ambient Intelligence and Embedded Systems : International Symposium, 14-16 September, 2017, Vaasa, Finland 2017 / 3 p. : ill <http://amies-2017.international-symposium.org/abstracts.html#tammemae>

Feasibility study of a DC house connected to a conventional AC distribution network

Hokmabad, Hossein Nouroollahi; Shabir, Noman; Astapov, Victor; Petlenkov, Eduard; Husev, Oleksandr; Belikov, Yuri 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604419>

Feasibility study on distributed flow sensing with inertial sensors in aquaculture fish cages

Ristolainen, Asko; Piho, Laura; Kruusmaa, Maarja Aquacultural Engineering 2022 / art. 102271, 9 p. : ill

<https://doi.org/10.1016/j.aquaeng.2022.102271> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feature article: Firmware updating systems for nanosatellites

Sünter, Indrek; Slavinskis, Andris; Kvell, Urmas; **Vahter, Andres**; Kuuste, Henri; Noorma, Mart; Kutt, Johan; Vendt, Riho; Tarbe, Karl; Pajusalu, Mihkel; Veske, Mihkel; Ilves, Taavi IEEE Aerospace and Electronic Systems Magazine 2016 / p. 36 - 44

<https://doi.org/10.1109/MAES.2016.150162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feature engineering for short-term forecast of energy consumption

Spitšakova, Margarita; Belikov, Juri; Nõu, Kalvi; Petlenkov, Eduard Proceedings of 2019 IEEE PES : Innovative Smart Grid Technologies Europe : (ISGT-Europe), Bucharest Romania, 29 September - 2 October, 2019 2019 / 5 p. : ill

<https://doi.org/10.1109/ISGTEurope.2019.8905698>

Feature engineering of Weather Data for Short-Term Energy Consumption Forecast

Sinimaa, Maria; Spitšakova, Margarita; Belikov, Juri; Petlenkov, Eduard 2021 IEEE Madrid PowerTech 2021 / 6 p.

<https://doi.org/10.1109/PowerTech46648.2021.9494920>

Fischverhalten besser verstehen mithilfe von Multiparameterdaten

Bensing, Katharina; **Tuhtan, Jeffrey Andrew**; Lehmann, Boris 45. Dresdner Wasserbaukolloquium 2022 : „Nachhaltigkeit im Wasserbau – Umwelt, Transport, Energie“ : Technische Universität Dresden – Fakultät Bauingenieurwesen Institut für Wasserbau und Technische Hydromechanik 2022 / S. 103-113 : ill

https://henry.baw.de/bitstream/20.500.11970/108930/1/10_Fischverhalten_Multiparameterdaten_Bensing_.pdf

Fish body geometry reduces the upstream velocity profile in subcritical flowing waters

Bensing, Katharina; **Tuhtan, Jeffrey Andrew**; Toming, Gert; Khan, Ali Hassan; Lehmann, Boris Aquatic sciences 2022 / p. 1-14 : ill

<https://doi.org/10.1007/s00027-022-00863-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fish downstream passage over weirs at low-head hydropower plants : field study of total dissolved gas concentrations

Süss, Gabor; Albayrak, Ismail; Evers, Frederic M.; **Tuhtan, Jeffrey Andrew**; Boes, Robert Proceedings of the 10th International Symposium on Hydraulic Structures 2024 / p. 750 - 759 : ill

<https://doi.org/10.3929/ethz-b-000676021>

Fish fauna and fisheries of large European rivers: examples from the Volga and the Danube

Schletterer, Martin; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; **Tuhtan, Jeffrey Andrew** Hydrobiologia 2018 / p. 45-60 : ill

<https://doi.org/10.1007/s10750-017-3370-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fish under pressure : Examining behavioural responses of Iberian barbel under simulated hydropeaking with instream structures

Costa, Maria Joao; **Fuentes-Pérez, Juan Francisco**; Boavida, Isabel; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N. PLoS ONE

2019 / art. e021111525, 25 p. : ill <https://doi.org/10.1371/journal.pone.0211115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A fish-friendly axial flow pump turns out to be eel safe, roach unfriendly and bream unsafe

Bruneel, Stijn; Pauwels, Ine S.; **Broos, Sarah**; Vandamme, Lore; Van Wichelen, Jeroen; Coeck, Johan; **Toming, Gert; Tuhtan, Jeffrey Andrew**; Buysse, David Scientific reports 2024 / art. 30234, 18 p. : ill

<https://doi.org/10.1038/s41598-024-81095-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A flapped paddle-fin for improving underwater propulsive efficiency of oscillatory actuation

Simha, Ashutosh; Gkliva, Roza; Kotta, Ülle; Kruusmaa, Maarja IEEE robotics and automation letters 2020 / p. 3176-3181

<https://doi.org/10.1109/LRA.2020.2975747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Floor selection proposal for automated travel with smart elevator

Reinsalu, Uljana; Robal, Tarmo; Leier, Mairo Databases and Information Systems : 14th International Baltic Conference, DB&IS

2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 https://doi.org/10.1007/978-3-030-57672-1_4 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Flow sensing with pressure sensor-based artificial lateral lines : from the laboratory to the field = Veevoolu tajumine rõhusensoritel baseeruvate küljejooneanduritega : laborist välikatseteni

Fuentes-Pérez, Juan Francisco 2019 <https://digi.lib.ttu.ee/i/?12014>

Flow velocity estimation using a fish-shaped lateral line probe with product-moment correlation features and a neural network

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Kruusmaa, Maarja Flow measurement and instrumentation 2017 / p. 1-8 : ill

<https://doi.org/10.1016/j.flowmeasinst.2016.10.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fluid body interaction of biomimetic underwater robots = Biomimeetiliste robotite ja vedeliku vastasmõju

Toming, Gert 2017 <https://digi.lib.ttu.ee/i/?7304> https://www.ester.ee/record=b4665016*est

Flussabwärts gerichtete Fischwanderung an mittelgroßen Fließgewässern in Österreich

Schneider, Josef; Ratschan, Clemens; Heisey, Paul; **Tuhtan, Jeffrey Andrew** Wasserwirtschaft 2017 / S. 39-44 : III
<https://www.springerprofessional.de/flussabwaerts-gerichtete-fischwanderung-an-mittelgrossen-flieessg/15274054> <https://doi.org/10.1007/s35147-017-0207-0> [Journal metrics at Scopus](#) [Article at Scopus](#)

FOMCON toolbox for modeling, design and implementation of fractional-order control systems

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Handbook of fractional calculus with applications 2019 / p. 211–236
<https://doi.org/10.1515/9783110571745>

FOMCONpy: Fractional-order modelling and control library for python

Onyedi, Tobechukwu; Tepljakov, Aleksei; Petlenkov, Eduard 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 / p. 239-245 <http://doi.org/10.1109/TSP49548.2020.9163581>

FOPID controllers and their industrial applications: a survey of recent results

Tepljakov, Aleksei; Alagoz, Baris Baykant; Petlenkov, Eduard IFAC-PapersOnLine 2018 / p. 25-30
<https://doi.org/10.1016/j.ifacol.2018.06.014> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

FoREnSiC— an automatic debugging environment for C programs

Bloem, Roderick; **Raik, Jaan; Repinski, Urmas** Eighth Haifa Verification Conference : HVC 2012 : November 6-8, Haifa, Israel : [proceedings] 2013 / p. 260-265 : ill https://doi.org/10.1007/978-3-642-39611-3_24 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Foreword : [selected papers of the 19th Biennial Conference on Electronics and Embedded Systems 2024 (BEC 2024), that took place on October 2-4, 2024, in Tallinn, Estonia]

Le Moullec, Yannick; Ellervee, Peeter Proceedings of the Estonian Academy of Sciences 2025 / p. 267-268
<https://doi.org/10.3176/proc.2025.2S.04>

Forschung und Technik

Rost, Ulrich; Weibel, Uwe; Wüst, Steffen; **Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew** Biologische Durchgängigkeit von Fließgewässern : Ausgewählte Beiträge aus der Fachzeitschrift Wasser/Wirtschaft 2017 / S. 491-602 http://dx.doi.org/10.1007/978-3-658-13990-2_6

FORTUNE: A Negative Memory Overhead Hardware-Agnostic Fault Tolerance Technique in DNNs

Nazari, Samira; **Taheri, Mahdi; Azarpeyvand, Ali; Afsharchi, Mohsen; Ghasempouri, Tara; Herglotz, Christian; Daneshtalab, Masoud; Jenihhin, Maksim** 2024 IEEE 33rd Asian Test Symposium (ATS) 2024 / p. 1-6 : ill
<https://doi.org/10.1109/ATS64447.2024.10915463> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Forward and backward walking : multifactorial characterization of gait parameters

Donno, Lucia; **Monoli, Cecilia; Frigo, Carlo Albino; Galli, Manuela** Sensors 2023 / art. 4671 <https://doi.org/10.3390/s23104671> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A 4-Stage pipelined architecture for point multiplication of binary huff curves

Rashid, Muhammad Imran; **Imran, Malik; Jafri, Atif Raza; Mehmood, Zahid** Journal of circuits, systems, and computers 2020 / art. 2050179 <https://doi.org/10.1142/S0218126620501790>

Fractional order model identification of receptor-ligand complexes formation by equivalent electrical circuit modeling

Ates, Abdullah; Alagoz, Baris Baykant; **Tepljakov, Aleksei; Petlenkov, Eduard** 2019 International Artificial Intelligence and Data Processing Symposium (IDAP) 2019 / 5 p. : ill <https://doi.org/10.1109/IDAP.2019.8875913>

Fractional-order modeling and control of dynamic systems : doctoral thesis accepted by Tallinn University of Technology, Tallinn, Estonia

Tepljakov, Aleksei 2017 http://www.ester.ee/record=b4744055*est <http://dx.doi.org/10.1007/978-3-319-52950-9>

Fractional-order modeling and control of ionic polymer-metal composite actuator

Tepljakov, Aleksei; Vunder, Veiko; Petlenkov, Eduard; Nakshatharan, S Sunjai; Punning, Andres; Kaparin, Vadim; Belikov, Juri; Aabloo, Alvo Smart materials and structures 2019 / 12 p. : ill <https://doi.org/10.1088/1361-665X/ab2c75> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

From bench to bedside

Arezzo, Alberto; **Kruusmaa, Maarja; Mylonas, George** IEEE Transactions on Medical Robotics and Bionics 2022 / p. 297 - 299
<https://doi.org/10.1109/TMRB.2022.3172013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

From data to stability: a novel approach for controlling unknown linear time-invariant systems with performance enhancement

Ghorbani, Majid; Nosrati, Komeil; Tepljakov, Aleksei; Petlenkov, Eduard Journal of Computational Applied Mechanics 2024 / p.

From FPGAs to obfuscated eASICs : design and security trade-offs

Abideen, Zain Ul; Perez, Tiago Diadami; Pagliarini, Samuel Nascimento IEEE Asian Hardware-Oriented Security and Trust (AsianHOST) 2021 / p. 1-4 <https://doi.org/10.1109/AsianHOST53231.2021.9699758>

From online fault detection to fault management in network-on-chips : a ground-up approach

Azad, Siavoosh Payandeh; Niazmand, Behrad; Janson, Karl; Nevin, George; Oyeniran, Adeboye Stephen; Putkaradze, Tsotne; Apneet Kaur; Raik, Jaan; Jervan, Gert; Ubar, Raimund-Johannes; Hollstein, Thomas Proceedings 2017 IEEE 20th International Symposium on Design and Diagnostics of Electronic Circuit & Systems(DDECS) : April 19-21, 2017, Dresden, Germany 2017 / p. 48-53 : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7934553>

From RTL liveness assertions to cost-effective hardware checkers

Hariharan, Ranganathan; Ghasempouri, Tara; Niazmand, Behrad; Raik, Jaan XXXIII Conference on Design of Circuits and Integrated Systems (DCIS) : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/DCIS.2018.8681487>

From virtual characterization to test-chips : DFM analysis through pattern enumeration

Martins, Mayler G.A.; Pagliarini, Samuel Nascimento; Isgenc, Mehmet Meric; Pileggi, Larry IEEE transactions on computer-aided design of integrated circuits and systems 2020 / p. 520-532 <https://doi.org/10.1109/TCAD.2018.2889772>

Fully-fusible convolutional neural networks for end-to-end fused architecture with FPGA implementation

Dadras, Iman; Seydi, Sakineh; Ahmadilivani, Mohammad Hasan; Raik, Jaan; Salehi, Mostafa E. 2023 30th IEEE International Conference on Electronics, Circuits and Systems (ICECS) 2023 / 5 p. <https://doi.org/10.1109/ICECS58634.2023.10382831>

Functions' algebra in nonlinear control : computational aspects and software

Belikov, Juri; Kaldmäe, Arvo; Kaparin, Vadim; Kotta, Ülle; Shumsky, Alexey Ye.; Tõnso, Maris; Zhirabok, Alexey Proceedings of the Estonian Academy of Sciences 2017 / p. 89-107 <https://doi.org/10.3176/proc.2017.1.06> http://www.ester.ee/record=b2355998*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fuzzy gradient control of electric vehicles at blended braking with volatile driving conditions

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja ICINCO 2020 : 17th International Conference on Informatics in Control, Automation and Robotics, July 7-9, 2020 : online 2020 / p. 250-261 <http://wikicfp.com/cfp/servlet/event.showcfp?eventid=97093©ownerid=45217>

Fuzzy logic control of electric vehicles in changing braking conditions

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112 <https://doi.org/10.1109/ICEPDS47235.2020.9249083>

A fuzzy rule-based model for the assessment of macrobenthic habitats under hydropeaking impact

Schneider, Matthias; Kopecki, Iana; Tuhtan, Jeffrey Andrew River research and applications 2017 / p. 377-387 : ill <http://dx.doi.org/10.1002/rra.3079>

Gate-level graph representation learning : a step towards the improved stuck-at faults analysis

Balakrishnan, Aneesh; Alexandrescu, Dan; Jenihhin, Maksim; Lange, Thomas; Glorieux, Maximilien Proceedings of the Twenty Second International Symposium on Quality Electronic Design (ISQED) : Santa Clara, USA, 7-9 April 2021 2021 / p. 24-30 <https://doi.org/10.1109/ISQED51717.2021.9424256>

Gen Z oriented engineering education in the “Industry 4.0” age

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / p. 1-4 <https://doi.org/10.1109/RTUCON60080.2023.10413087>

Genetic programming based identification of an industrial process

Tarasevich, Maksimilian; Tepļakov, Aleksej; Petlenkov, Eduard; Vansovits, Vitali 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 134-140 <https://doi.org/10.1109/TSP52935.2021.9522588>

Genetische Analysen von Fischbeständen: Populationsgenetik und eDNA

Weiss, Steven; Deiner, Kristy; Tuhtan, Jeffrey Andrew; Gumpinger, Clemens; Schletterer, Martin Wasserwirtschaft 2018 / S. 22-29 : ill <https://www.springerprofessional.de/genetische-analysen-von-fischbestaenden-populationsgenetik-und-e/15499156> <https://doi.org/10.1007/s35147-018-0008-0> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Gert Jervan: AI Leap — benefits of early adoption

Jervan, Gert <https://news.err.ee/1609624118/gert-jervan-ai-leap-benefits-of-early-adoption> 2025

Gert Jervan: TalTechi uurimisrühma tulemusel on Eesti kui digiriigi eestvedaja paremini kaitstud

Kald, Indrek ituudised.ee 2023 [Gert Jervan: TalTechi uurimisrühma tulemusel on Eesti kui digiriigi eestvedaja paremini kaitstud](#)

Gert Jervan: tehisintellekti tark kasutamine võib inimkonnale palju kasu tuua

kultuur.err.ee 2023 [Gert Jervan: tehisintellekti tark kasutamine võib inimkonnale palju kasu tuua](#)

Gert Jervan: Tehisintellektiga on praegu nii nagu kunagi tuumarelvadega – tõestada, et me suudame seda teha

Tammepuu, Kadri; **Jervan, Gert** tv.postimees.ee 2023 [Gert Jervan: Tehisintellektiga on praegu nii nagu kunagi tuumarelvadega – tõestada, et me suudame seda teha](#)

Gert Jervan: TI õpib meie pealt ja meie jagatud infost

Jervan, Gert Õpetajate Leht 2025 / lk. 6-7 <https://dea.digar.ee/article/opetajateleht/2025/05/13/7.1> <https://www.opleht.ee/2025/05/gert-jervan-ti-opib-meie-pealt-ja-meie-jagatud-infost/>

Gert Jervan: TI-hüpe – varase kasutuselevõtu eelised

Jervan, Gert err.ee 2025 <https://www.err.ee/1609621601/gert-jervan-ti-hupe-varase-kasutuselevotu-eelised>

G-GPU : a fully-automated generator of GPU-like ASIC accelerators

Perez, Tiago Diadami; Gonçalves, Marcio M.; Gobatto, Leonardo; Brandalero, Marcelo; Azambuja, Jose Rodrigo; **Pagliarini, Samuel Nascimento** 2022 Design, Automation & Test in Europe Conference & Exhibition (DATE 2022) : proceedings 2022 / p. 544 - 547 <https://doi.org/10.23919/DATE54114.2022.9774758>

Global linearization approach to nonlinear control systems : a brief tutorial overview

Belikov, Juri; Kaldmäe, Arvo; Kotta, Ülle Proceedings of the Estonian Academy of Sciences 2017 / p. 243-263

<https://doi.org/10.3176/proc.2017.3.01> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2824300*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Graphical tuning for robust stabilization : implementable stability regions for fractional-order proportional integral controllers in interval fractional-order systems

Ghorbani, Majid; Farnam, Arash; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Crevecoeur, Guillaume; Eskandarian, Azim 2024 IEEE 63rd Conference on Decision and Control (CDC) 2024 / p. 8902 - 8907 <https://doi.org/10.1109/CDC56724.2024.10885794> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Guest editorial : implementation issues in system-on-chip

Ellervee, Peeter; Nurmi, Jari Journal of signal processing systems 2017 / p. 269-270 <https://doi.org/10.1007/s11265-017-1242-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Guest editorial : Special issue on parallel, distributed, and network-based processing in next-generation embedded systems

Mubeen, Saad; Lo Bello, Lucia; **Daneshtalab, Masoud**; Saponara, Sergio Journal of Systems Architecture : the EUROMICRO Journal 2021 / art. 102159 <https://doi.org/10.1016/j.sysarc.2021.102159>

Guideliner : a tool to improve Web UI development for better usability

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** WIMS 2018 : 8th International Conference on Web Intelligence, Mining and Semantics, June 25–27 2018, Novi Sad, Serbia : proceedings 2018 / art. 17, 9 p. : ill <https://doi.org/10.1145/3227609.3227667> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Hall effect sensor-based low-cost flow monitoring device : design and validation

Egerer, Margit; **Ristolainen, Asko**; **Piho, Laura**; **Vihman, Lauri**; **Kruusmaa, Maarja** IEEE sensors journal 2024 / 12 p. : ill <https://doi.org/10.1109/JSEN.2024.3354194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Handling of SETs on NoC links by exploitation of inherent redundancy in circular input buffers [Online resource]

Janson, Karl; **Pihlak, Rene**; **Azad, Siavoosh Payandeh**; **Niazmand, Behrad**; **Jervan, Gert**; **Raik, Jaan** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600989>

Hardware obfuscation of digital FIR filters

Aksoy, Levent; Hepp, Alexander; Baehr, Johanna; **Pagliarini, Samuel Nascimento** 2022 25th International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS) : Prague, Czech Republic : April 6-8, 2022 : proceedings 2022 / p. 68-73 <https://doi.org/10.48550/arXiv.2202.10022> <https://doi.org/10.1109/DDECS54261.2022.9770141>

Hardware realization of lattice-based post-quantum cryptography = Võrel põhinev post-kvant-krüptograafia riistvaraline realiseerimine

Imran, Malik 2023 https://www.ester.ee/record=b5571216*est <https://doi.org/10.23658/taltech.33/2023> <https://digikogu.taltech.ee/et/Item/75aeb070-cb8b-4511-beaf-cbea3fca147d> https://www.ester.ee/record=b5571216*est

Hardware trojan insertion in finalized layouts : from methodology to a silicon demonstration

Perez, Tiago Diadami; Pagliarini, Samuel Nascimento IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems 2023 / p. 2094-2107 <https://doi.org/10.1109/TCAD.2022.3223846> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hardware Trojans for confidence reduction and misclassifications on neural networks

Grailoo, Mahdieh; **Leier, Mairo; Pagliarini, Samuel Nascimento** Proceedings Of The Twenty Third International Symposium On Quality Electronic Design (ISQED 2022) 2022 / art. 180541, p. 230-235 <https://doi.org/10.1109/ISQED54688.2022.9806246>

Hardware-in-the-Loop test of an open loop fuzzy control method for decoupled electro-hydraulic antilock braking system

Aksjonov, Andrei; Ricciardi, Vincenzo; Augsburg, Klaus; **Vodovozov, Valery; Petlenkov, Eduard** IEEE transactions on fuzzy systems 2020 / p. 965-975: ill <https://doi.org/10.1109/TFUZZ.2020.2965868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Harvesting energy and stability insights in internally coupled resonator systems

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; **Petlenkov, Eduard** Proceedings, IEEE 18th International Conference on Advanced Motion Control, AMC2024, February 28-March 1, 2024 2024 / p. 1-6 : ill <https://doi.org/10.1109/AMC58169.2024.10505680>

Hea teaduse odav väljamüük

Ubar, Raimund-Johannes Postimees 2017 / lk. 6 <https://teadus.postimees.ee/4343295/raimund-ubar-hea-teaduse-odav-valjamuuk>

Health management for self-aware SoCs based on IEEE 1687 infrastructure

Shibin, Konstantin; Devadze, Sergei; Jutman, Artur; Grabmann, Martin; Pricken, Robin IEEE Design & Test 2017 / p. 27-35 : ill <https://doi.org/10.1109/MDAT.2017.2750902> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heterogeneous Approximation of DNN HW Accelerators based on Channels Vulnerability

Cherezova, Natalia; Pappalardo, Salvatore; **Taheri, Mahdi; Ahmadilivani, Mohammad Hasan**; Deveautour, Bastien; Bosio, Alberto; **Raik, Jaan; Jenihhin, Maksim** 2024 IFIP/IEEE 32nd International Conference on Very Large Scale Integration (VLSI-SoC) 2024 / 4 p. : ill <https://doi.org/10.1109/VLSI-SoC62099.2024.10767798> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A hierarchical approach for devising area efficient concurrent online checkers

Niazmand, Behrad; Azad, Siavoosh Payandeh; Ghasempouri, Tara; Raik, Jaan; Jervan, Gert Proceedings 2nd IEEE International Test Conference in Asia : ITC-Asia 2018, 15-17 August 2018, Harbin, China 2018 / p. 139-144 : ill <https://doi.org/10.1109/ITC-Asia.2018.00034>

Hierarchical attention network to manage processing resources of CPSs

Tammemäe, Kalle SelPhys Program 2017 <https://www.ict.tuwien.ac.at/selphys2017/program>

Hierarchical conceptual clustering based on quantile method for identifying microscopic details in distributional data

Umbleja, Kadri; Ichino, Manabu; Yaguchi, Hiroyuki Advances in data analysis and classification 2020 / 30 p. : ill <https://doi.org/10.1007/s11634-020-00411-w>

Hierarchical temporal memory implementation on FPGA using LFSR based spatial pooler

Kerner, Madis; Tammemäe, Kalle Proceedings 2017 IEEE 20th International Symposium on Design and Diagnostics of Electronic Circuit & Systems (DDECS) : April 19-21, 2017, Dresden, Germany 2017 / p. 92-95 <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7934553>

Hierarchical test generation for combinational circuits with real defects coverage

Cibakova, Tatiana; Fischerova, Maria; Gramatova, Elena; Kuzmicz, W.; Pleskacz, Witold A.; **Raik, Jaan; Ubar, Raimund-Johannes** Microelectronics reliability 2002 / p. 1141-1149 : ill <https://www.sciencedirect.com/science/article/pii/S002627140200080X>

Hierarchical timing-critical paths analysis in sequential circuits

Jürimägi, Lembit; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan; Devadze, Sergei; Kostin, Sergei 2018 IEEE 28th International Symposium on Power and Timing Modeling, Optimization and Simulation (PATMOS 2018) : 2 – 4 July 2018, Spain 2018 / 6 p. : ill <https://doi.org/10.1109/PATMOS.2018.8464176>

High-Level Combined Deterministic and Pseudo-exhaustive Test Generation for RISC Processors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan 2019 IEEE European Test Symposium (ETS) : ETS 2019, May 27-31, 2019, Baden-Baden, Germany : Proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/ETS.2019.8791526>

High-level combined deterministic and pseudo-exhaustive test generation for RISC processors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Gürsoy, Cemil Cem; Raik, Jaan 2019 IEEE European Test Symposium (ETS) : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/ETS.2019.8791526>

High-level fault diagnosis in RISC processors with Implementation-Independent Functional Test

Oyeniran, Adeboye Stephen; Jenihhin, Maksim; Raik, Jaan; Ubar, Raimund-Johannes 2022 IEEE Computer Society Annual

High-level functional test generation for microprocessor modules

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes Proceedings of 26th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2019 : Rzeszów, Poland, June 27 - 29, 2019 / p. 356-361 : ill <https://doi.org/10.23919/MIXDES.2019.8787131>

High-Level Implementation-Independent Functional Software-Based Self-Test for RISC Processors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan Journal of electronic testing : theory and applications 2020 / p. 87-103 <https://doi.org/10.1007/s10836-020-05856-7>

High-level implementation-independent software-based self-test for RISC type microprocessors = Mikroprotsessorite tarkvarapõhine implementatsioonist mittesõltuv funktsionaalne enesekontroll

Oyeniran, Adeboye Stephen 2020 <https://digikogu.taltech.ee/et/Item/08a75fbb-3f71-4fe4-b3d0-3f37a9a5f36d>

High-level intellectual property obfuscation via decoy constants

Aksoy, Levent; Nguyen, Quang-Linh; Almeida, Felipe; Raik, Jaan; Flottes, Marie-Lise; Dupuis, Sophie; Pagliarini, Samuel Nascimento 2021 IEEE 27th International Symposium on On-Line Testing and Robust System Design (IOLTS) : Torino, Italy, 28-30 June 2021 / p. 1-7 <https://doi.org/10.1109/IOLTS52814.2021.9486714>

High-level test data generation for software based self-test in microprocessors

Oyeniran, Adeboye Stephen; Jasnetski, Artjom; Tšertov, Anton; Ubar, Raimund-Johannes 2017 6th Mediterranean Conference on Embedded Computing (MECO) : including ECYPS'2017 : proceedings : research monograph : Bar, Montenegro, June 11th-15th, 2017 / p. 86-91 : ill <https://doi.org/10.1109/MECO.2017.7977167>

High-level test generation for processing elements in many-core systems

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Azad, Siavoosh Payandeh; Raik, Jaan 12th International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC2017), July 12-14, 2017, Madrid, Spain : proceedings 2017 / 8 p. : ill <http://dx.doi.org/10.1109/ReCoSoC.2017.8016156>

A high-performance MEMRISTOR-based Smith-Waterman DNA sequence alignment using FPN structure

Taheri, Mahdi; Zandevakili, Hamed; Mahani, Ali Journal of Applied Research in Electrical Engineering 2021 / p. 59-68 <https://doi.org/10.22055/jaree.2021.36117.1016>

High-speed design of postquantum cryptography with optimized hashing and multiplication

Imran, Malik; Aikata, Aikata; Roy, Sujoy Sinha; Pagliarini, Samuel Nascimento IEEE Transactions on Circuits and Systems II : Express Briefs 2023 / p. 847-851 : ill <https://doi.org/10.1109/TCSII.2023.3273821> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-speed SABER key encapsulation mechanism in 65nm CMOS

Imran, Malik; Almeida, Felipe; Basso, Andrea; Roy, Sujoy Sinha; Pagliarini, Samuel Nascimento Journal of cryptographic engineering 2023 / p. 461-471 : ill <https://doi.org/10.1007/s13389-023-00316-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hirm masinate ees: tehisintellekti liiga kiirele arengule tõmmatakse pidurit

Strandberg, Marek; Einama, Kaido Postimees 2023 / lk. 5 <https://dea.digar.ee/article/postimees/2023/03/31/3.11> [Hirm masinate ees: tehisintellekti liiga kiirele arengule tahetakse tõmmata pidurit](#)

HLS-based optimization of tau triggering algorithm for LHC: a case study

Cherezova, Natalia; Mihhailov, Dmitri; Devadze, Sergei; Jutman, Artur 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935599>

Holistic IJTAG-based external and internal fault monitoring in UAVs

Ahmed, Foisal; Jenihhin, Maksim arXiv.org 2023 / 6 p. : ill <https://doi.org/10.48550/arXiv.2303.01816>

How do You ride an elevator? Passenger in-cabin behavior analysis on a smart-elevator platform

Robal, Tarmo; Reinsalu, Uljana Smart Life and Smart Life Engineering : Current State and Future Vision 2025 / p. 209 - 236 https://doi.org/10.1007/978-3-031-75887-4_10

Hybrid protection of digital FIR filters

Aksoy, Levent; Nguyen, Quang-Linh; Almeida, Felipe; Raik, Jaan; Flottes, Marie-Lise; Dupuis, Sophie; Pagliarini, Samuel Nascimento IEEE transactions on Very Large Scale Integration (VLSI) Systems 2023 / p. 812-825 : ill <https://doi.org/10.1109/TVLSI.2023.3253641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hydraulics of vertical-slot fishways: nonuniform profiles

Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Eckert, Mario; Romao, F.; Ferreira, Maria Teresa; Kruusmaa, Maarja;

Branco, Paulo Journal of hydraulic engineering 2019 / p. 06018020-1 - 06018020-6 : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001565](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001565) Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hydroacoustic and pressure turbulence analysis for the assessment of fish presence and behavior upstream of a vertical trash rack at a run-of-river hydropower plant

Schmidt, Marc B.; **Tuhtan, Jeffrey Andrew**; Schletterer, Martin Applied sciences 2018 / art. 1723, 20 p. : ill <https://doi.org/10.3390/app8101723> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hydromorphological classification using synchronous pressure and inertial sensing

Ristolainen, Asko; **Kalev, Kaia**; **Tuhtan, Jeffrey Andrew**; **Kuusik, Alar**; **Kruusmaa, Maarja** IEEE transactions on geoscience and remote sensing 2018 / p. 3222-3232 : ill <https://doi.org/10.1109/TGRS.2018.2795641> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

I paneel. Ülikooli missioon ühiskonnas ning kõrghariduse, teaduspoliitika ja haridusteaduste kestlikkus

Land, Tiit; Valk, Aune; Raidal, Martti; **Kruusmaa, Maarja**; Lauristin, Marju Haridus - meie ühine vastutus : Eesti Haridusfoorum 2018-2020 : ettekannete ja artiklite kogumik 2020 / lk. 36-43 : fot https://www.ester.ee/record=b5397258*est

Identification of seismic signals at the output of large ring laser gyroscope

Tari, J.B.; Eno, N.A Earth Observing Systems XXIII, 21-23 August 2018, San Diego, California, United States 2018 / art. 107641M, 11 p. : ill <https://doi.org/10.1117/12.2320614> Conference proceeding at Scopus Article at Scopus Article at WOS

IEEE 1687 compliant ecosystem for embedded instrumentation access and in-field health monitoring

Tšertov, Anton; Jutman, Artur; Shibin, Konstantin; **Devadze, Sergei** IEEE AUTOTESTCON 2018 : National Harbor, September 17-20, 2018 : proceedings 2018 / 9 p.: ill <https://doi.org/10.1109/AUTEST.2018.8532559>

IEEE European Test Symposium (ETS)

Eggersgluss, Stephan; Hamdioui, Said; **Jutman, Artur**; Michael, Maria K.; **Raik, Jaan** 2019 IEEE International Test Conference (ITC) 2019 / 4 p <https://doi.org/10.1109/ITC44170.2019.9000148> Conference proceeding at Scopus Article at Scopus Article at WOS

Image encryption using fractional singular chaotic systems : an extended Kalman filtering approach

Nosrati, Komeil; **Belikov, Juri**; **Tepljakov, Aleksei**; **Petlenkov, Eduard** 2022 International Conference on Electrical, Computer and Energy Technologies (ICECET) 2022 / 6 p. : ill <https://doi.org/10.1109/ICECET55527.2022.9873484>

IMMizer : an innovative cost-effective method for minimizing assertion sets

Heidari Iman, Mohammad Reza; **Raik, Jaan**; **Jervan, Gert**; **Ghasempouri, Tara** 2022 25th Euromicro Conference on Digital System Design (DSD) : Maspalomas, Spain 2022 : proceedings 2022 / p. 671 - 678 <https://doi.org/10.1109/DSD57027.2022.00095> Article at Scopus Article at WOS

Impact of orientation on the bias of SRAM-based PUFs

Abideen, Zain Ul; Wang, Rui; **Perez, Tiago Diadami**; Schrijen, Geert-Jan; **Pagliarini, Samuel Nascimento** arXiv.org 2023 / 7 p. : ill <https://doi.org/10.48550/arXiv.2308.06730>

Impact of orientation on the bias of SRAM-based PUFs

Abideen, Zain Ul; Wang, Rui; **Perez, Tiago Diadami**; Schrijen, Geert-Jan; **Pagliarini, Samuel Nascimento** IEEE design & test 2024 / p. 14-20 <https://doi.org/10.1109/MDAT.2023.3322621> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of the COVID-19 pandemic on the energy use and performance in commercial buildings

Belikov, Juri; **Köse, Ahmet**; **Petlenkov, Eduard**; **Tepljakov, Aleksei**; Loo, Lauri 2022 45th International Conference on Telecommunications and Signal Processing, TSP 2022 2022 / p. 187-191 <https://doi.org/10.1109/TSP55681.2022.9851384>

The impact of the single digital gateway regulation from the citizens' perspective

Bhattarai, Rakshya; **Pappel, Ingrid**; **Vainsalu, Heiko**; **Ben Yahia, Sadok**; **Draheim, Dirk** Procedia Computer Science 2019 / p. 159 - 167 <https://doi.org/10.1016/j.procs.2019.12.168> Conference proceeding at Scopus Article at Scopus Article at WOS

Impacts and risks of hydropower

Treeck, Ruben van; Geist, Juergen; Pander, Joachim; **Tuhtan, Jeffrey Andrew**; Wolter, Christian Novel Developments for Sustainable Hydropower 2022 / p. 41-60 https://doi.org/10.1007/978-3-030-99138-8_4

Implementation of series resonance-based fault current limiter for enhanced transient stability of grid-connected photovoltaic farm

Demin, Slava; Barbie, Eli; Heistrene, Leena; **Belikov, Juri**; **Petlenkov, Eduard**; Levron, Yoash; Baimel, Dmitry Electronics (Switzerland) 2024 / art. 2987 <https://doi.org/10.3390/electronics13152987> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implementation-independent functional test for transition delay faults in microprocessors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan 2020 23rd Euromicro Conference on Digital System Design (DSD), 26-28 August 2020, Kranj, Slovenia 2020 / p. 646-650 <https://doi.org/10.1109/DSD51259.2020.00105>

Implementation-independent functional test generation for RISC microprocessors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan VLSI-SoC 2019 : 27th IFIP/IEEE International Conference on Very Large Scale Integration : [proceedings] 2019 / p. 82-87 : ill <https://doi.org/10.1109/VLSI-SoC.2019.8920323>

Implementation-independent test generation for a large class of faults in RISC processor modules

Jenihhin, Maksim; Oyeniran, Adeboye Stephen; Raik, Jaan; Ubar, Raimund-Johannes 24th Euromicro Conference on Digital System Design (DSD) 2021 <https://doi.org/10.1109/DSD53832.2021.00090>

An improved cooperative team spraying control of a diffusion process with a moving or static pollution source

Chen, Juan; Cui, Baotong; Chen, YangQuan; Zhuang, Bo IEEE/CAA Journal of Automatica Sinica 2020 / p. 494 - 504 : ill <https://doi.org/10.1109/JAS.2019.1911519>

An improved implementation of shift displacement method on hardware —comprehensive evaluation of emerging bi-pedal techniques

Abideen, Zain Ul; Tariq, Hassan; Hafeez, Muhammad Asfand; Subhani, Zahid Mehmood 2020 4th International Conference on Automation, Control and Robots : Rome, Italy, 11-13 October 2020 2020 / p. 7-12 : ill <https://doi.org/10.1109/ICACR51161.2020.9265496>

Improving beam-based regulation for continuous-wave linear accelerators with a disturbance model-based design = Pidevaine lineaarse te kiirendite kiire põhise reguleerimise täiustamine häiringu mudelil põhineva sünteesi abil

Maalberg, Andrei 2023 <https://doi.org/10.23658/taltech.51/2023> <https://digikogu.taltech.ee/et/Item/b6a935be-08cf-4874-aef2-dcda56693add> https://www.ester.ee/record=b5638841*est

Improving motion safety and efficiency of intelligent autonomous swarm of drones

Majd, Amin; Loni, Mohammad; Sahebi, Golnaz; Daneshtalab, Masoud Drones 2020 / art. 48, 19 p. : ill <https://doi.org/10.3390/drones4030048>

Improving symbolic data visualization for pattern recognition and knowledge discovery

Umbleja, Kadri; Ichino, Manabu; Yaguchi, Hiroyuki Visual Informatics 2020 / p. 23-31 : ill <https://doi.org/10.1016/j.visinf.2019.12.003>

Improving the confidence level in functional safety simulation tools for ISO 26262

Bagbaba, Ahmet Cagri; Augusto da Silva, Felipe; Sauer, Christian 2018 Design and Verification Conference (DVCON) Europe : [proceedings] 2018 / 6 p. : ill <https://dvcon-proceedings.org/document/improving-the-confidence-level-in-functional-safety-simulation-tools-for-iso-26262/> <https://zenodo.org/record/3361607#.Y0PHFnZByHs>

Improving the reliability of underwater gait analysis using wearable pressure and inertial sensors

Monoli, Cecilia; Galli, Manuela; Tuhtan, Jeffrey Andrew PLoS One 2024 / e0300100, 15 p <https://doi.org/10.1371/journal.pone.0300100> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In memoriam : Prof. Ahto Kalja : 24.05.1950 - 22.10.2018

Bubenko, Janis; Solvberg, Arne; Amicans, Guntis; Borzovs, Juris; Čaplinskis, Albertas; Grundspenķis, Janis; **Haav, Hele-Mai;** Kirikova, Marite; Lupeikiene, Audrone; Matulevičius, Raimundas; **Robal, Tarmo;** Vasilecas, Olegas; Lupeikiene, Audrone Databases and information systems X : selected papers from the thirteenth International Baltic Conference, DB&IS 2018 2019 / p. v-vi : phot https://www.ester.ee/record=b5203991*est <http://ebooks.iospress.nl/volume/databases-and-information-systems-x-selected-papers-from-the-thirteenth-international-baltic-conference-dbis-2018>

In water and on land forward and backward spatiotemporal gait characteristics

Monoli, Cecilia; Galli, Manuela; Tuhtan, Jeffrey Andrew 8th Congress of the European Society of Biomechanics, July 9-12, 2023, Maastricht, the Netherlands 2023 https://www.researchgate.net/publication/372419899_IN_WATER_AND_ON_LAND_FORWARD_AND_BACKWARD_SPATIOTEMPORAL_GAIT_CHARACTERISTICS

In-field detection of degradation on PCB assembly high-speed buses

Odintsov, Sergei IEEE AUTOTESTCON 2018 : National Harbor, September 17-20, 2018 : proceedings 2018 / 6 p.: ill <https://doi.org/10.1109/AUTEST.2018.8532547>

Influence of operation modes and fish behavior on fish passage through turbines

Stoltz, Ulli; Geiger, Franz; Tuhtan, Jeffrey Andrew IOP Conference Series: Earth and Environmental Science ; 774 2021 / art. 012125 <https://doi.org/10.1088/1755-1315/774/1/012125> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Influencia de factores ambientales y biométricos en la capacidad de nado del barbo ibérico (Luciobarbus bocagei Steindachner, 1864), un ciprínido potamódromo endémico de la Península Ibérica

Ruiz-Legazpi, J.; Sans-Ronda, F.J.; Bravo-Cordoba, F.J.; Fuentes-Pérez, Juan Francisco Limnetica 2018 / p. 251-265 : ill <https://doi.org/10.23818/limn.37.21> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at Scopus](#)

Innovaatiline tiiger või hääbuv väikeriik?

Jervan, Gert Postimees 2022 / Lk. 13 <https://dea.digar.ee/article/postimees/2022/04/26/13.7>

An insight on mud behavior upon stepping

Godon, Simon Pierre; Ristolainen, Asko; Kruusmaa, Maarja IEEE robotics and automation letters 2022 / p. 11039-11046
<https://doi.org/10.1109/LRA.2022.3194667> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Integration of long transmission lines in large-scale DQ0 dynamic models

Belikov, Juri; Levron, Yoash Electrical Engineering 2018 / p. 1219–1228 <https://doi.org/10.1007/s00202-017-0582-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

IntelliEye: enhancing MOOC learners' video watching experience through real-time attention tracking

Robal, Tarmo; Zhao, Yue; Lofi, Christoph; Hauff, Claudia HT '18 : 29th ACM Conference on Hypertext & SocialMedia, July 9–12, 2018, Baltimore, MD, USA : proceedings of the 29th on Hypertext and Social Media 2018 / p. 106-114 : ill
<https://doi.org/10.1145/3209542.3209547>

Intelligent control and digital twins for industry 4.0

Tepljakov, Aleksei Sensors 2023 / art. 4036 <https://doi.org/10.3390/s23084036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Intelligent control of robots with minimal power consumption in pick-and-place operations

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Energies 2023 / art. 7418 <https://doi.org/10.3390/en16217418> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Intelligent frequency control of AC microgrids with communication delay : an online tuning method subject to stabilizing parameters

Nosrati, Komeil; Škiparev, Vjatšeslav; Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Energy and AI 2024 / art. 100421
<https://doi.org/10.1016/j.egyai.2024.100421> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Intelligent virtual environments with assessment of user experiences

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard Artificial Intelligence and Soft Computing : 20th International Conference, ICAISC 2021, Virtual Event, June 21–23, 2021 : proceedings, Part I 2021 / p. 463–474 : ill https://doi.org/10.1007/978-3-030-87986-0_41
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Interactive whiteboards in extended reality for advanced control system design

Tepljakov, Aleksei 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 1-5
<https://doi.org/10.1109/TSP52935.2021.9522616>

Inverse-model intelligent control of fin-actuated underwater robots based on drag force propulsion

Remmas, Mohamed Walid; Chemori, Ahmed; Kruusmaa, Maarja Ocean Engineering 2021 / art. 109883, 19 p. : ill
<https://doi.org/10.1016/j.oceaneng.2021.109883> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigating and analyzing CAN-to-TSN gateway forwarding techniques

Berisa, Aldin; Ashjaei, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Mubeen, Saad 2023 IEEE 26th International Symposium on Real-Time Distributed Computing : ISORC 2023 : Nashville, Tennessee, USA, 23-25 May 2023 : proceedings 2023 / p. 136-145
<https://doi.org/10.1109/ISORC58943.2023.00026>

Investigating Fish Hydrodynamic Sensing : An Integrated Approach Utilizing Numerical and Experimental Methods [Võrguteavik] = Uurimus kalade hüdrodünaamilise tajumise kohta : integreeritud lähenemine, kasutades numbrilisi ja eksperimentaalseid meetodeid

Khan, Ali Hassan 2025 https://www.ester.ee/record=b5729246*est <https://digikogu.taltech.ee/et/Item/01ab1ec5-371a-442e-9564-04042ce64f53> <https://doi.org/10.23658/taltech.8/2025>

IT-hariduse skeletiks on nüüd inseneriks saamine

Jervan, Gert; Lorents, Peeter Mente et Manu 2017 / lk. 39-41 : fot http://www.ester.ee/record=b1242496*est
https://artiklid.elnet.ee/record=b2830876*est

Jaan Raik : müütidest Eesti elektroonikatööstuse väljavaadete ümber

Raik, Jaan err.ee 2022 [Jaan Raik: müütidest Eesti elektroonikatööstuse väljavaadete ümber](#)

Jaan Raik : Nurkse juhtumist ilma paranoiata [Võrguväljaanne]

Raik, Jaan err.ee 2019 / fot [Jaan Raik: Nurkse juhtumist ilma paranoiata](#)

Jaan Raik : valedega "korruptsiooni" vastu [Võrguväljaanne]

Raik, Jaan err.ee 2020 / fot [Jaan Raik: valedega "korruptsiooni" vastu](#) vaata ka: Keegan McBride: vastukaja artiklile "Valedega "korruptsiooni" vastu" (err.ee 24.01.2020)

Jaan Raik: Computers must undergo a revolution in order to continue their rapid development

Raik, Jaan Estonian Centre of Excellence in ICT Research 2021 / p. 43-47 : ill <http://www.digar.ee/id/nlib-digar:634779>
https://www.ester.ee/record=b5456158*est

Jaan Raik: kiibidisain aitaks saada Eestil jõukaks tehnoloogiamaa

Maidla, Margus novaator.err.ee 2023

Jaan Raik: kiibikriis – kas maailmalõpp või Eesti võimalus? [Võrguväljaanne]

postimees.ee 2021 ["Jaan Raik: kiibikriis – kas maailmalõpp või Eesti võimalus?"](https://postimees.ee/raik-kiibikriis-kas-maailmalopp-voi-est-voimalus)

Joint Proceedings of Baltic DB&IS 2022 Doctoral Consortium and Forum co-located with 15th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2022)

2022 <https://ceur-ws.org/Vol-3158/>

Journal of signal processing systems for signal, image, and video technology. Implementation issues in system-on-chip

2017 <https://link.springer.com/journal/11265/87/3/page/1>

Juba ligi pooled IT-erialadele astujatest on TalTechis naised

Tammemäe, Kalle Äripäev 2022 / Lk. 9 [Juba ligi pooled IT-erialadele astujatest on TalTechis naised](https://www.ester.ee/record=b1071975*est)

https://www.ester.ee/record=b1071975*est

JÄNES : a NAS framework for ML-based EDA applications

Selg, Hardi; Jenihhin, Maksim; Ellervee, Peeter IEEE International Symposium on Defect and Fault Tolerance in VLSI Systems

2021 <https://doi.org/10.1109/DFT52944.2021.9568321>

Kaks uut unikaalset TalTechi magistrikava hakkavad valmistama ette tippspetsialiste strateegiliselt tähtsale IKT valdkonnale

digi.geenius.ee 2023 [Kaks uut unikaalset TalTechi magistrikava hakkavad valmistama ette tippspetsialiste strateegiliselt tähtsale IKT valdkonnale](https://digi.geenius.ee/blogi/teadus-ja-tulevik/kas-sind-huvitab-mis-toimub-kapoti-all-taltech-magistrio-avab-tehnoloogia-telgitagused/)

KaLi: a crystal for post-quantum security using kyber and dilithium

Aikata, Aikata; Mert, Ahmet Can; Imran, Malik; Pagliarini, Samuel Nascimento; Roy, Sujoy Sinha IEEE Transactions on Circuits and Systems I : regular papers 2023 / p. 747–758 <https://doi.org/10.1109/TCSI.2022.3219555> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kamerabasiertes Monitoring von Fischen in Deutschland und der Schweiz

Haas, Christian; Meyer, Matthias; Schmalz, Maria; Tuhtan, Jeffrey Andrew WasserWirtschaft 2024 / p. 19 - 29

<https://doi.org/10.1007/s35147-024-2401-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kas sind huvitab, mis toimub “kapoti all”? TalTechi magistriõpe avab tehnoloogia telgitagused

digi.geenius.ee 2025 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/kas-sind-huvitab-mis-toimub-kapoti-all-taltech-magistrio-avab-tehnoloogia-telgitagused/>

Kas tehisaru areng toob kaasa robotite imevõimed?

Kruusmaa, Maarja postimees.ee 2025 <https://arvamus.postimees.ee/8205770/maarja-kruusmaa-kas-tehisaru-areng-toob-kaasa-robotite-imevoimed>

Keynote: cost-efficient reliability for Edge-AI chips

Jenihhin, Maksim; Taheri, Mahdi; Cherezova, Natalia; Ahmadilivani, Mohammad Hasan; Selg, Hardi; Jutman, Artur; Shibin, Konstantin; Tsertov, Anton; Devadze, Sergei; Kodamanchili, Rama Mounika; Rafiq, Ahsan; Raik, Jaan; Daneshtalab, Masoud 2024 IEEE 25th Latin American Test Symposium (LATS) 2024 / 2 p <https://doi.org/10.1109/LATS62223.2024.10534610> [Article at Scopus](#)

[Article at Scopus](#)

Kiibikeskus kui ellujäämisvõimalus

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/kiibikeskus-kui-ellujaaamisvoimalus/>

Kiibikriis: kas maailmalõpp või Eesti võimalus?

Raik, Jaan Postimees 2022 / Lk. 12 <https://dea.digar.ee/article/postimees/2021/12/14/12.4>

Kiipidest on saanud julgeolekuküsimus – neid arendatakse nüüd ka Eestis

postimees.ee 2025 <https://tehnika.postimees.ee/8256776/kiipidest-on-saanud-julgeolekukusimus-neid-arendatakse-nuud-ka-eestis>

KRATT : QBF-assisted removal and structural analysis attack against logic locking

Aksoy, Levent; Yasin, Muhammad; Pagliarini, Samuel 2024 Design, Automation & Test in Europe Conference & Exhibition (DATE)

: Valencia, Spain, 25-27 March 2024 : proceedings 2024 / 6 p. : ill <https://doi.org/10.23919/DATE58400.2024.10546552> [Conference](#)

[proceeding at Scopus Article at Scopus Article at WOS](#)

KRATT : QBF-assisted removal and structural analysis attack against logic locking

Aksoy, Levent; Yasin, Muhammad; **Pagliarini, Samuel Nascimento** arXiv.org 2023 / 7 p. : ill <https://doi.org/10.48550/arXiv.2311.05982>

Kriiside tekkimine ühiskondliku valiku teel ehk Riikide säilimine olelusvõitluses

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 20-21 <https://dea.digar.ee/article/ak/2022/02/12/12.2>

Kui internet saab täis

Jervan, Gert Postimees 2020 / Lk. 13 <https://dea.digar.ee/article/postimees/2020/07/30/11.3> <https://leht.postimees.ee/7028359/gert-jervan-kui-eesti-internet-saab-tais>

Kuidas DFDS Rotterdami sadamas tehisintellekti abil efektiivsust otsib?

Puusild, Harro logistikauudised.ee 2025 <https://www.logistikauudised.ee/uudised/2025/05/22/kogemus-kuidas-dfds-rotterdami-sadamas-tehisintellekti-abil-efektiivsust-otsib>

Kuidas tehisintellekt kitarris heliseb

Vaaks, Eveliis; Bogatkin, Jüri Trialoog 2025 <https://trialoog.taltech.ee/kuidas-tehisintellekt-kitarris-heliseb/>

Kõva sõna

Kruusmaa, Maarja Postimees 2020 / Lk. 2 https://www.ester.ee/record=b1072778*est

Land and underwater gait analysis using wearable IMU

Monoli, Cecilia; Fuentez-Perez, Juan Francisco; Cau, Nicola; Capodaglio, Paolo; Galli, Manuela; **Tuhtan, Jeffrey Andrew** IEEE sensors journal 2021 / p. 11192-11202 <https://doi.org/10.1109/JSEN.2021.3061623> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

Latch-Based logic locking

Sweeney, J.; Mohammed Zackriya, V.; **Pagliarini, Samuel Nascimento**; Pileggi, Larry Proceedings of the IEEE International Symposium on Hardware Oriented Security and Trust, HOST 2020 2020 / p. 132–141 : ill <https://doi.org/10.1109/HOST45689.2020.9300256>

Latest trends in hardware security and privacy

Di Natale, Giorgio; Regazzoni, Francesco; Albanese, Vincent; Lhermet, Frank; Loisel, Yann; Sensaoui, Abderrahmane; **Pagliarini, Samuel Nascimento** 33rd IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) : ESA-ESRIN, Italy (On-line Virtual Event), October 19–21, 2020 2020 / 4 p. : ill <https://doi.org/10.1109/DFT50435.2020.9250816>

Learning to program with Lego Mindstorms - difference between K-12 students and adults

Umbleja, Kadri Teaching and Learning in a Digital World : proceedings of the 20th International Conference on Interactive Collaborative Learning. Volume 2 2018 / p. 447–458 https://link.springer.com/chapter/10.1007/978-3-319-73204-6_49 https://doi.org/10.1007/978-3-319-73204-6_49 [Conference proceedings at Scopus Article at Scopus Article at WOS](#)

Legged Locomotion on Soft and Wet Terrains [Võrguteavik] = Jalgadel liikumine pehmel ja märjal maastikul

Godon, Simon Pierre 2025 https://www.ester.ee/record=b5754511*est <https://digikogu.taltech.ee/et/Item/3fa536fe-cad0-47ce-b240-5415fb6ce141> <https://doi.org/10.23658/taltech.48/2025>

Leveraging digital twins and demand side recommender Chatbot for optimizing smart grid energy efficiency

Onile, Abiodun Emmanuel; Belikov, Juri; Petlenkov, Eduard; Levron, Yoash 2023 IEEE PES Innovative Smart Grid Technologies - Asia, ISGT Asia 2023 2023 / 5 p <https://doi.org/10.1109/ISGTAsia54891.2023.10372761>

Leveraging FPGA Reconfigurability as an Obfuscation Asset = FPGA ümberkonfigureeritavuse rakendamine hāgustamise vahendina

Abideen, Zain UI 2024 <https://digikogu.taltech.ee/et/Item/660d923b-44d2-4993-898f-324ab2088199> https://www.ester.ee/record=b5649944*est <https://doi.org/10.23658/taltech.1/2024>

Leveraging layout-based effects for locking analog ICs

Aljafar, Muayad J.; Azais, Florence; Flottes, Marie-Lise; **Pagliarini, Samuel Nascimento** ASHES'22: Proceedings of the 2022 Workshop on Attacks and Solutions in Hardware Security 2022 / p. 5-13 <https://doi.org/10.1145/3560834.3563826>

LiD-CAT: A lightweight detector for cache ATtacks

Reinbrecht, Cezar; Hamdioui, Said; Taouil, Mottaqiallah; **Niazmand, Behrad; Ghasempouri, Tara; Raik, Jaan; Sepulveda, Johanna** 2020 IEEE European Test Symposium (ETS) : ETS 2020, May 25-29, 2020 Tallinn, Estonia : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/ETS48528.2020.9131603>

Lightweight assimilation of open urban ambient air quality monitoring data and numerical simulations with unknown

uncertainty

Miasayedava, Lizaveta; Kaugerand, Jaanus; Tuhtan, Jeffrey Andrew Environmental modeling & assessment 2023 / p. 961–975
<https://doi.org/10.1007/s10666-023-09909-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lightweight monitoring scheme for flooding DoS Attack detection in multi-tenant MPSoCs

Chaves Arroyave, Cesar Giovanni; Sepulveda, Johanna; Hollstein, Thomas 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401153>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Lightweight open data assimilation of Pan-European urban air quality

Miasayedava, Lizaveta; Kaugerand, Jaanus; Tuhtan, Jeffrey Andrew IEEE access 2023 / p. 84670–84688 : ill., map
<https://doi.org/10.1109/ACCESS.2023.3302348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Logic IP for low-cost IC design in advanced CMOS nodes

Isgenc, Mehmet Meric; Martins, Mayler G.A.; Zackriya, V. Mohammed; **Pagliarini, Samuel Nascimento**; Pileggi, Larry IEEE Transactions on Very Large Scale Integration (VLSI) Systems 2020 / p. 585-595 <https://doi.org/10.1109/TVLSI.2019.2942825>

LQG problem of descriptor systems and separation principle

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard 2024 IEEE 63rd Conference on Decision and Control (CDC) 2024 / p. 1412 - 1417 <https://doi.org/10.1109/CDC56724.2024.10886178> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Lugemiselamus

Kruusmaa, Maarja Horisont 2017 / lk. 61 : ill http://www.ester.ee/record=b1072243*est

Luude seisundit uuritakse kaaluta olekus

Imeline Teadus 2024 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Maarja Kruusmaa: kõige tõenäolisemalt sureb vaktsiinivastane hoopis südame-veresoonkonnahaigustesse [Võrguväljaanne]

Kruusmaa, Maarja postimees.ee 2022 "[Maarja Kruusmaa: kõige tõenäolisemalt sureb vaktsiinivastane hoopis südame-veresoonkonnahaigustesse](#)"

Maarja Kruusmaa: lühike õpetus kriisijuhtidele

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 2 [Maarja Kruusmaa: lühike õpetus kriisijuhtidele](#)
<https://dea.digar.ee/article/ak/2023/01/14/2.1>

Maarja Kruusmaa: mõtlemine, kas olen piisavalt heal tasemel, ei vii edasi. Tegutseda tuleb!

Vaikmaa, Madis; **Kruusmaa, Maarja** Postimees 2018 / Arter, lk. 2-6 [Arteri suur intervjuu robotikateadlase Maarja Kruusmaaga: mõtlemine, kas olen piisavalt tasemel, ei vii edasi. Tegutseda tuleb](#)

Maarja Kruusmaa: säilenõtkusesse panustamine tagab ühiskonna toimimise mistahes olukorras

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 3 [Maarja Kruusmaa: säilenõtkusesse panustamine tagab ühiskonna toimimise mistahes olukorras](#)

Machine learning clustering techniques for selective mitigation of critical design features

Lange, Thomas; **Balakrishnan, Aneesh**; Glorieux, Maximilien; Alexandrescu, Dan; Sterpone, Luca Proceedings : 2020 26th IEEE International Symposium on On-Line Testing and Robust System Design : IOLTS 2020, Napoli, Italy, July 13-16, 2020 : virtual edition 2020 / 7 p. : ill <https://doi.org/10.1109/IOLTS50870.2020.9159751>

Machine learning enabled fault-detection algorithms for optical spectrum-as-a-service users

Patri, Sai Kireet; Dick, Isabella; **Kaeval, Kaida**; Müller, Jasper; Pedreno-Manresa, Jose-Juan; Autenrieth, Achim; Elbers, Jörg-Peter; Tikas, Marko; Mas-Machuca, Carmen 2023 International Conference on Optical Network Design and Modeling (ONDM) : proceedings 2023 / 6 p. : ill <https://ieeexplore.ieee.org/document/10144858>

Machine learning to tackle the challenges of transient and soft errors in complex circuits

Lange, Thomas; **Balakrishnan, Aneesh**; Glorieux, Maximilien; Alexandrescu, Dan; Sterpone, Luca 2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS), 1-3 July 2019, Greece 2019 / p. 7-14 : ill
<https://doi.org/10.1109/IOLTS.2019.8854423>

Machine vision for automated collaborative robot programming in manufacturing industrial factories

Ahmadilivani, Mohammad Hasan; Karatopuk, Emre; Roots, Marten; Raik, Jaan Smart machines and systems at the service of mankind : Abstracts of the 12th annual entrepreneurship and innovation conference 2024 / p. 10 <https://conference.euas.eu/2024/wp-content/uploads/2024/10/ConferenceProceedings2024-1.pdf> https://www.ester.ee/record=b5705417*est

Magnetic assisted sorption technology for advanced removal and recovery of phosphorus from mainstream and side-stream WWTP

Ivanova Drenkova-Tuhtan, Asya; Meyer, Carsten; Mandel, Karl; Schneider, Michael IWA Nutrient Removal and Recovery Conference 18-21 November 2018, Brisbane, Australia 2018 / p. 5 : ill ["IWA"](#)

Majandusele oluline kiibikeskus võib 1 miljoni pärast käest libiseda: MKM kahtleb, EISA on poolt

Puusild, Harro aripaev.ee 2024 [Majandusele oluline kiibikeskus võib 1 miljoni pärast käest libiseda: MKM kahtleb, EISA on poolt](#)

Managing energy consumption of linear delta robots using neural network models

Vodovozov, Valery; Lehtla, Madis; Raud, Zoja; Semjonova, Natalia; Petlenkov, Eduard Energies 2024 / art. 4081

<https://doi.org/10.3390/en17164081> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Maneuvering on non-Newtonian fluidic terrain : a survey of animal and bio-inspired robot locomotion techniques on soft yielding grounds

Godon, Simon Pierre; Kruusmaa, Maarja; Ristolainen, Asko Frontiers in Robotics and AI 2023 / art. 1113881

<https://doi.org/10.3389/frobt.2023.1113881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Man-made flows from a fish's perspective : autonomous classification of turbulent fishway flows with field data collected using an artificial lateral line

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Schneider, Matthias; Schwarzenberger, Richard;

Schletterer, Martin; **Kruusmaa, Maarja** Bioinspiration & biomimetics 2018 / art. 046006, 17 p. : ill [https://doi.org/10.1088/1748-](https://doi.org/10.1088/1748-3190/aabc79)

[3190/aabc79](https://doi.org/10.1088/1748-3190/aabc79) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Map-based localization and loop-closure detection from a moving underwater platform using flow features

Muhammad, Naveed; Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Toming, Gert; Kruusmaa, Maarja; Musall,

Mark Autonomous robots 2019 / p. 1419-1434 : ill <https://doi.org/10.1007/s10514-018-9797-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Marginal PCB assembly defect detection on DDR3/4 memory bus

Odintsov, Sergei; Jutman, Artur; Devadze, Sergei 2017 IEEE International Test Conference (ITC 2017) : Forth Worth, Texas,

USA, 31 October - 2 November 2017 2017 / p. 238-247 : ill <https://doi.org/10.1109/TEST.2017.8242070> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

[Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Meditsiinitehnika lipulaeva Karl Storzi ja TalTechi koostöös sünnivad maailmamuutvad teadus- ja uurimisprojektid

Raag, Toomas digi.geenius.ee 2023 [Meditsiinitehnika lipulaeva Karl Storzi ja TalTechi koostöös sünnivad maailma muutvad teadus- ja uurimisprojektid](#)

[Meditsiinitehnika lipulaeva Karl Storzi ja TalTechi koostöös sünnivad maailmamuutvad teadus- ja uurimisprojektid](#)

Memristive device based circuits for computation-in-memory architectures

Lebdeh, Muath Abu; **Reinsalu, Uljana;** Nguyen, Hoang Anh Du; Wong, Stephan; Hamdioui, Said 2019 IEEE International

Symposium on Circuits and Systems (ISCAS) : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/ISCAS.2019.8702542> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

[Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Message from Program Co-Chairs: PDP 2020

Daneshtalab, Masoud; Brorsson, Mats 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based

Processing : PDP 2020, Västerås, Sweden, 11-13 March 2020 2020 / 1 p <https://doi.org/10.1109/PDP50117.2020.00006>

A method for detection and evaluation of driver distraction induced by in-vehicle information systems

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard IECON 2018 - 44th Annual Conference of the IEEE

Industrial Electronics Society : proceedings 2018 / p. 4513-4518 : ill <https://doi.org/10.1109/IECON.2018.8591252>

A method of driver distraction evaluation using fuzzy logic : phone usage as a driver's secondary activity : case study

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin Proceedings : IACAT 2017 : XXVI

International Conference on Information, Communication and Automation Technologies, October 26-28, 2017, Sarajevo, Bosnia-

Herzegovina 2017 / 6 p. : ill <https://doi.org/10.1109/ICAT.2017.8171599>

A methodology for automated mining of compact and accurate assertion sets

Heidari Iman, Mohammad Reza; Raik, Jaan; Jenihhin, Maksim; Jervan, Gert; Ghasempouri, Tara 2021 IEEE Nordic Circuits

and Systems Conference (NorCAS) : Oslo, Norway, October 26-27 2021 / 7 p. : ill [https://ieeexplore.ieee.org/stamp/stamp.jsp?](https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9599865)

[tp=&arnumber=9599865](https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9599865) <https://doi.org/10.1109/NorCAS53631.2021.9599865>

Methods for improving the accuracy and efficiency of fault simulation in digital systems = Meetodid digitaalsüsteemide rikete simuleerimise täpsuse ja efektiivsuse tõstmiseks

Kõusaar, Jaak 2019 <https://digi.lib.ttu.ee/i/?11667>

Methods for reliability assessment and enhancement of deep neural networks hardware accelerators =

Süvanärvivõrkude riistvara kiirendite töökindluse hindamine ja täiustamine

Taheri, Mahdi 2025 https://www.ester.ee/record=b5728368*est <https://digikogu.taltech.ee/et/Item/9cf79768-17bc-44ec-a828-e4ccf6cf93f1>

<https://doi.org/10.23658/taltech.4/2025>

Methods to optimize functional safety assessment for automotive integrated circuits = Meetodid autotööstuse kiipide funktsionaalse ohutuse hindamise optimeerimiseks

Bagbaba, Ahmet Cagri 2022 <https://doi.org/10.23658/taltech.9/2022> <https://digikogu.taltech.ee/et/Item/58b0b89d-b1ba-4a73-ba53-850910d697b5> https://www.ester.ee/record=b5491885*est

Mikk Raud: Eestil on aeg oma kiibipotentsiaal ellu äratada

Arjakas, Merili diplomaatia.ee 2023

MIMO reinforcement learning based approach for frequency support in microgrids with high renewable energy penetration

Skiparev, Vjatseslav; Belikov, Juri; Petlenkov, Eduard 2021 IEEE Power & Energy Society General Meeting (PESGM), 26-29 July 2021 2021 / 5 p. : ill <https://doi.org/10.1109/PESGM46819.2021.9637942>

Miniatuurne märgvara [Võrguteavik]

Tammemäe, Kalle Arvutimaailm 2018 / 14 p <https://www.am.ee/margvara>

Minimal energy storage required for stability of low inertia distributed sources

Fahima, Aviad; Ofir, Ron; Levron, Yoash; Belikov, Juri 2018 5th IEEE International Energy Conference (ENERGYCON), Limassol, Cyprus, June 3-7, 2018 : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/ENERGYCON.2018.8398775>

Minimization of the high-level fault model for microprocessor control parts [Online resource]

Ubar, Raimund-Johannes; Oyeniran, Adeboye Stephen; Medaiyese, Olusiji BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600980>

Missugust matemaatikat on vaja esimese kursuse tudengil?

Kukk, Vello Õpetajate Leht 2021 / Lk. 12 : fot <https://dea.digar.ee/article/opetajateleht/2021/02/05/9.7>

Mixed-level identification of fault redundancy in microprocessors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Gürsoy, Cemil Cem; Raik, Jaan LATS 2019 : 20th IEEE Latin American Test Symposium : Santiago, Chile, March 11th - 13th 2019 2019 / 6 p. : ill <https://doi.org/10.1109/LATW.2019.8704591>

ML-based online design error localization for RISC-V implementations

Selg, Hardi; Jenihhin, Maksim; Ellervee, Peeter; Raik, Jaan 2023 IEEE 29th International Symposium on On-Line Testing and Robust System Design (IOLTS) : IOLTS 2023 : July 3rd-5th, 2023, Platanias, Chania (Crete), Greece : proceedings 2023 / 7 p. <https://doi.org/10.1109/IOLTS59296.2023.10224864>

MLC: a machine learning based checker for soft error detection in embedded processors

Nosrati, Nooshin; Jenihhin, Maksim; Navabi, Zainalabedin Proceedings - 2022 IEEE 28th International Symposium on On-Line Testing and Robust System Design, IOLTS 2022 2022 / Code 183305 <https://doi.org/10.1109/IOLTS56730.2022.9897309> [Article at Scopus](#) [Article at WOS](#)

Mobile smart contracts : exploring scalability challenges and consensus mechanisms

Deval, Vipin; Dwivedi, Vimal Kumar; Dixit, Abhishek; Norta, Alex; Shah, Syed Attique; Sharma, Rahul; Draheim, Dirk IEEE Access 2024 / p. 34265 - 34288 <https://doi.org/10.1109/ACCESS.2024.3371901> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Model predictive control of descriptor systems

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard IEEE Control Systems Letter 2024 / p. 2139 - 2144 <https://doi.org/10.1109/LCSYS.2024.3448310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Model reference adaptive control scheme for retuning method-based fractional-order PID control with disturbance rejection applied to closed-loop control of a magnetic levitation system

Tepljakov, Aleksei; Alagoz, Baris Baykant; Gonzalez, Emmanuel A.; Petlenkov, Eduard; Yeroglu, Celaledin Journal of circuits, systems, and computers 2018 / 1850176 <https://doi.org/10.1142/S0218126618501761> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Model-based control design for a district heating plant

Vansovits, Vitali; Godoy, Boris I.; Tepljakov, Aleksei; Vassiljeva, Kristina; Petlenkov, Eduard 2017 IEEE 15th International Conference on Industrial Informatics (INDIN 2017) : Emden, Germany, 24-26 July 2017 2017 / p. 615-620 : ill <https://doi.org/10.1109/INDIN.2017.8104842>

Modeling and experimental analysis of the mass loading effect on micro-ionic polymer actuators using step response identification

Dadras, Iman; Ghenna, Sofiane; Grondel, Sébastien; Cattani, Éric; Raik, Jaan; Aabloo, Alvo; Banerji, Saoni Journal of

Microelectromechanical Systems 2021 / p. 243–252 : ill <https://doi.org/10.1109/JMEMS.2021.3060897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modeling and identification of an industrial hot water boiler

Tarasevich, Maksimilian; Tepļakov, Aleksei; Petlenkov, Eduard; Vansovits, Vitali 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 <https://doi.org/10.1109/TSP49548.2020.9163503>

Modeling and simulation of circuits with shared structurally synthesized BDDs

Ubar, Raimund-Johannes; Jürimägi, Lembit; Raik, Jaan; Viies, Vladimir Microprocessors and microsystems 2017 / p. 56-61 : ill <https://doi.org/10.1016/j.micpro.2016.09.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modeling dissipation scale distributions at high Reynolds number

Gustenyov, Nikolay; Bailey, Sean; **Egerer, Margit**; Hultmark, Marcus; Smits, Alexander J. AIAA AVIATION 2022 Forum 2022 / Art. nr. AIAA 2022-3346 <https://doi.org/10.2514/6.2022-3346>

Modeling for multi-view interference analysis of design aspects in MPSoC designs

Vain, Jüri; Apneet Kaur; Tsiopoulos, Leonidas; Raik, Jaan; Jenihhin, Maksim RESCUE 2017 : Workshop on Reliability, Security and Quality : ETS17 Fringe Workshop, May 25-26, 2017, Limassol, Cyprus 2017 / p. 1-6 <http://www.ets17.org.cy/workshop/rescue-workshop.html>

Modeling gate-level abstraction hierarchy using graph convolutional neural networks to predict functional de-rating factors

Balakrishnan, Aneesh; Lange, Thomas; Glorieux, Maximilien; Alexandrescu, Dan; **Jenihhin, Maksim** 2019 NASA/ESA conference on adaptive hardware and systems AHS 2019 : proceedings 2019 / p. 72-78 : ill <https://doi.org/10.1109/AHS.2019.00007>

Modeling power networks using dynamic phasors in the dq0 reference frame

Levron, Yoash; **Belikov, Juri** Electric power systems research 2017 / p. 233-242 <https://doi.org/10.1016/j.epsr.2016.11.024>

Modeling soft-error reliability under variability

Balakrishnan, Aneesh; Cardoso Medeiros, Guilherme; Gürsoy, Cemil Cem; Hamdioui, Said; **Jenihhin, Maksim**; Alexandrescu, Dan 2021 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) : 6-8 Oct. 2021 2021 / p. 1-6 <https://doi.org/10.1109/DFT52944.2021.9568295>

Modelling of a versatile vehicle braking system with a fuzzy PID torque controller

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276798>

Monitoring of coastal waves and velocities with a robotic platform

Piho, Laura; Egerer, Margit; Gkliva, Roza; Kruusmaa, Maarja; Ristolainen, Asko OCEANS 2024 - Halifax : proceedings 2024 / 5 p <https://doi.org/10.1109/OCEANS55160.2024.10754335> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Monitoring upstream fish passage through a bypass pipe and drop at the fish lift Runserau : comparing dynamic pressure measurements on live fish with passive electronic fish surrogates

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Angerer, Thomas; Schletterer, Martin 2018 / 4 p. : ill <https://amber.international/event/12th-international-symposium-on-ecohydraulics-ise-2018/> <https://www.etis.ee/Portal/Publications/Display/909d1462-ad33-4f9e-a319-8718098cb63e>

More than depth : developing pressure sensing systems for aquatic environments

Schletterer, Martin; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Kruusmaa, Maarja** HydroSenSoft, International Symposium and Exhibition on Hydro-Environment Sensors and Software : 1-3 March 2017, Madrid, Spain 2017 / p. 1-7 : ill

Motivating Students to Avoid Academic Dishonesty in Learning Engineering Courses

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard; Serbin, Aleksandr EDUCON 2018 : Global Engineering Education Conference : abstracts 2018 / p. 100 http://www.educon-conference.org/current/documents/EDUCON2018_abstracts.pdf

Multi-fragment Markov model guided online test generation for MPSoC

Vain, Jüri; Tsiopoulos, Leonidas; Kharchenko, Vyacheslav; **Apneet Kaur**; Jenihhin, Maksim; Raik, Jaan ICTERI 2017 : ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer : proceedings of the 13th International Conference on ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer, Kyiv, Ukraine, May 15-18, 2017 2017 / p. 594-607 : ill <http://www.scopus.com/inward/record.uri?eid=2-s2.0-85020540459&partnerID=40&md5=af226e25c344c52689f23bf5c39cc267> <http://ceur-ws.org/Vol-1844/10000594.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Multi-level binarized LSTM in EEG classification for wearable devices

Nazari, N.; Mirsalari, Seyed Ahmad; Sinaei, S.; Salehi, M.E.; **Daneshtalab, Masoud** 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing : PDP 2020, Västerås, Sweden, 11-13 March 2020 2020 / p. 175-181

Multi-loop model reference adaptive control of fractional-order PID control systems

Alagoz, Baris Baykant; **Tepljakov, Aleksei; Petlenkov, Eduard**; Yeroglu, Celaledin 2017 40th International Conference on Telecommunications and Signal Processing TSP : July 5-7, 2017, Barcelona, Spain 2017 / p. 702-705 : ill <https://doi.org/10.1109/TSP.2017.8076078>

Multi-loop model reference proportional integral derivative controls: design and performance evaluations

Alagoz, Baris Baykant; **Tepljakov, Aleksei; Petlenkov, Eduard; Yeroglu, Celaledin** Algorithms 2020 / 26 p. : ill <https://doi.org/10.3390/a13020038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A multiplexed FBG based sensor platform for flow and temperature measurements in the Baltic Sea

Dzipsalski, A.; Morton, J. A. S.; Papachristou, N.; Maier, R. R. J.; MacPherson, W. N.; **Ristolainen, Asko; Kruusmaa, Maarja**; Reilent, E.; **Suhhova, Irina; Lips, Urmas** Proceedings of SPIE 2023 / art. 1264307-1 : ill <https://doi.org/10.1117/12.2679756> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A multiplexed reconfigurable modular FBG-based sensor platform for flow and temperature measurements in the North Sea

Dzipsalski, Adrian; Morton, Jonathan A. S.; Papchristou, Nikolitsa; Maier, Robert R. J.; MacPherson, William N.; **Ristolainen, Asko; Reilent, Enar; Kruusmaa, Maarja**; Wolf, Ben J.; Pirih, Primoz; Van Netten, Sietse M.; **Suhhova, Irina; Lips, Urmas**; McFarlane, Nathan; MacLeod, Robert; Hendry, Mark; Sheehy, Jack; Almoghayer, Mohammed; Rojas, Natalia; Davies, Gareth Proceedings of SPIE 2024 / 6 p <https://doi.org/10.1117/12.3031643> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Multiplierless design of high-speed very large constant multiplications

Aksoy, Levent; Roy, Debapriya Basu; **Imran, Malik; Pagliarini, Samuel Nascimento** 2024 29th Asia and South Pacific Design Automation Conference (ASP-DAC 2024) 2024 / p. 957-962 <https://doi.org/10.1109/ASP-DAC58780.2024.10473954>

Multiplierless design of very large constant multiplications in cryptography

Aksoy, Levent; Roy, Debapriya Basu; **Imran, Malik**; Karl, Patrick; **Pagliarini, Samuel Nascimento** IEEE Transactions on Circuits and Systems II : Express Briefs 2022 / p. 4503-4507 <https://doi.org/10.1109/TCSII.2022.3191662> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multiscale change detection in a supraglacial stream using surface drifters

Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja; Alexander, Andreas; **Fuentes-Pérez, Juan Francisco** River Flow 2020 Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020): River Flow 2020, Online, 7-10 July 2020 2020 / p. 1483-1492 <https://doi.org/10.1201/b22619>

Multi-species assessment of injury, mortality, and physical conditions during downstream passage through a large Archimedes hydrodynamic screw (Albert Canal, Belgium)

Pauwels, Ine S.; Baeyens, Raf; **Toming, Gert; Tuhtan, Jeffrey Andrew** Sustainability 2020 / art. 8722, 25 p. : ill <https://doi.org/10.3390/su12208722> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A multi-terrain robot prototype with archimedean screw actuators : design, realization, modeling, and control

Gkliva, Roza; Remmas, Mohamed Walid; Godon, Simon Pierre; Rebane, Jaan; Ochs, Kilian; Kruusmaa, Maarja; Ristolainen, Asko IEEE Access 2024 / p. 95820 - 95830 <https://doi.org/10.1109/ACCESS.2024.3426105> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-view modeling for MPSoC design aspects [Online resource]

Vain, Jüri; Apneet Kaur; Tsiopoulos, Leonidas; Raik, Jaan; Jenihhin, Maksim BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600986>

[Mõtted]

Kruusmaa, Maarja Hallo, Kosmos! Elu mõte / Ingrid Peek 2017 / lk. 27 https://www.ester.ee/record=b4746867*est

A NARX model reference adaptive control scheme: Improved disturbance rejection fractional-order PID control of an experimental magnetic levitation system

Alimohammadi, Hossein; Alagoz, Baris Baykant; **Tepljakov, Aleksei; Vassiljeva, Kristina; Petlenkov, Eduard** Algorithms 2020 / p. 1-27 <https://doi.org/10.3390/a13080201> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Negative correlation between functional connectivity and small-worldness in the alpha frequency band of a healthy brain

Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Raik, Jaan; Bachmann, Maie Frontiers in Physiology 2020 / Art. nr. 910 <https://doi.org/10.3389/fphys.2020.00910> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Network-based hardware accelerators for parallel data processing = Võrgupõhised riistvarakiirendid paralleelseks andmetöötluseks

Rjabov, Artjom 2017 <https://digi.lib.ttu.ee/i/?8436> https://www.ester.ee/record=b4685402*est

Network-on-Chip with equality-of-service : a local fair runtime arbitration method for global fair bandwidth share

Samman, Faizal; **Hollstein, Thomas** International journal of innovative computing, information and control 2019 / p. 1821–1834
<http://www.ijicic.net/servlet/Download?contentID=CONT34590d01977b424ea4f1cdfbb4c8c264> <https://doi.org/10.24507/ijicic.15.05.1821> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Network-on-ReRAM for scalable processing-in-memory architecture design

Dabiri, Bitā; Modarressi, Mehdi; **Daneshtalab, Masoud** 24th Euromicro Conference on Digital System Design (DSD) 2021
<https://doi.org/10.1109/DSD53832.2021.00031>

Neural network based configuring of linear delta robots with reduced energy consumption

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Renewable energies environment and power quality journal 2024 / p. 82-88
<https://doi.org/10.24084/repqj24.267>

Neural network control of green energy vehicles with blended braking systems

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja Renewable Energy & Power Quality Journal 2021 / p. 344-349 <https://doi.org/10.24084/repqj19.291> [Journal metrics at Scopus](#) [Article at Scopus](#)

Neural network-based model reference control of braking electric vehicles

Vodovozov, Valery; Aksjonov, Andrei; Petlenkov, Eduard; Raud, Zoja Energies 2021 / art. 2373 <https://doi.org/10.3390/en14092373>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NeuroPIM: flexible neural accelerator for processing-in-memory architectures

Bidgoli, Ali Monavari; Fattahi, Sepideh; Rezaei, Seyyed Hossein Seyyedaghaei; Modarressi, Mehdi; **Daneshtalab, Masoud** 2023
26th International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS) : May 3-5, 2023, Tallin, Estonia : proceedings 2023 / p. 51-56 <https://doi.org/10.1109/DDECS57882.2023.10139567>

New categories of Safe Faults in a processor-based Embedded System

Gürsoy, Cemil Cem; Jenihhin, Maksim; Oyeniran, Adeboye Stephen; Piumatti, Davide; Raik, Jaan; Sonza Reorda, Matteo; Ubar, Raimund-Johannes 2019 22nd International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS), Cluj-Napoca, Romania : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/DDECS.2019.8724642>

A new FPGA-based detection method for spurious variations in PCBA power distribution network

Odintsov, Sergei; Bozzoli, Ludovica; De Sio, Corrado; Sterpone, Luca; Jutman, Artur 2019 22nd International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS), Cluj-Napoca, Romania : proceedings 2019 / 6 p. : ill
<https://doi.org/10.1109/DDECS.2019.8724662>

A new mining life for non-feasible mineral deposits?

Bodo, Balazs; Lopes, Luis; Rossi, Claudio; Stasi, Giorgia; Burlet, Christian; Henley, Stephen; Correia, Vitor; Pinkse, Tobias; Kot-Niewiadomska, Alicja; **Ristolainen, Asko** EGU General Assembly 2021 2021 / art. EGU21-12115 <https://doi.org/10.5194/egusphere-egu21-12115>

A new virtual synchronous generator design based on the SMES system for frequency stability of low-inertia power grids

Magdy, Gaber; Bakeer, Abualkasim Ahmed Ali; Nour, Morsy; **Petlenkov, Eduard** Energies 2020 / art. 5641, 17 p. : ill
<https://doi.org/10.3390/en13215641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new, non-invasive fish backpack biollogger to measure the physical conditions experienced byswimming fish during downstream passage

Wagner, Falko; Busch, Andre; Buysse, David; Hoerner, Stefan; Kenndorf, Moritz; Pouwels, Ine; Rössger, Tom; Roth, Marcio Salgueiro; Schletterer, Martin; Stamm, Jürgen; **Toming, Gert; Tuhtan, Jeffrey Andrew** Fish Passage 2022 : Opportunities and Innovation in a Changing World : 13–16 June 2022 2022 / p. 147 https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC_Program_YouTube-Links.pdf

NN-SANARX model based control of a water tank system using embedded microcontroller Arduino

Škiparev, Vjatšeslav; Belikov, Juri; Petlenkov, Eduard Proceedings of the 2019 10th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications : IDAACS'2019, 18-21 Sept. 2019 2019 / p. 372-377 : ill <https://doi.org/10.1109/IDAACS47747.2019>

NoM: network-on-memory for inter-bank data transfer in highly-banked memories

Rezaei, S.H.S.A.; Modarressi, M.; Ausavarungrun, R.; Sadrosadati, M.; Mutlu, O.; **Daneshtalab, Masoud** IEEE computer architecture letters 2020 / p. 80-83 <http://dx.doi.org/10.1109/LCA.2020.2990599>

Nonlinear dynamics in PEH for enhanced power output and vibration suppression in metastructures

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; Petlenkov, Eduard Nonlinear Dynamics 2024 / p. 12941 - 12963 <https://doi.org/10.1007/s11071-024-09739-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nonlinear orientation controller for a compliant robotic fish based on asymmetric actuation

Meurer, Christian; Simha, Ashutosh; Kotta, Ülle; Kruusmaa, Maarja 2019 International Conference on Robotics and Automation : ICRA 2019, Palais des Congres de Montreal, Canada, 20-24 May, 2019 / Art. 8793892 ; p. 4688-4694
<https://doi.org/10.1109/ICRA.2019.8793892> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Not just the pump; broader considerations for downstream migrating silver eels at a 'fishfriendly' pumping station

Evans, Oliver; Bolland, Jonathan; Carter, Liam; Hutchinson, Thomas; Collier, Stephen; Don, Andrew; Wright, Rosalind; **Tuhtan, Jeffrey Andrew; Toming, Gert** Fish Passage 2022 : Opportunities and Innovation in a Changing World : 13-16 June 2022 / p. 34 https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC_Program_YouTube-Links.pdf

A novel approach for aquatic gait analysis using wearable inertial and hydrodynamic pressure sensors = Uudne lähenemisviis veealuse kõnnaku analüüsiks, kasutades kantavaid inertsiaalseid ja hüdrodünaamilisi rõhuandureid

Monoli, Cecilia 2024 https://www.ester.ee/record=b5685206*est <https://digikogu.taltech.ee/et/Item/f6ca5db2-99f6-48c2-98f8-c6ae343ddf7f>
<https://doi.org/10.23658/taltech.22/2024>

Novel architectures for contractive autoencoders with embedded learning

Kerner, Madis; Tammemäe, Kalle; Raik, Jaan; Hollstein, Thomas 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277246>

A Novel driver performance model based on machine learning

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin IFAC-PapersOnLine 2018 / p. 267-272 : ill <http://dx.doi.org/10.1016/j.ifacol.2018.07.044>

A novel fault-tolerant logic style with self-checking capability

Taheri, Mahdi; Sheikhpour, Saeideh; Mahani, Ali; Jenihhin, Maksim Proceedings - 2022 IEEE 28th International Symposium on On-Line Testing and Robust System Design, IOLTS 2022 / art. 183305 : ill <https://doi.org/10.1109/IOLTS56730.2022.9897818>

Novel mechanisms of robot locomotion : variable stiffness actuators for underwater and multi-phase environments = Robotite uudsed liikumismehhanismid : muutuva jäikusega täituriid veealustes ja mitmefaasilistes keskkondades

Gkliva, Roza 2023 <https://doi.org/10.23658/taltech.3/2023> <https://digikogu.taltech.ee/et/Item/b1135cd8-02a8-44f8-8b2c-d66d019ea63c>
https://www.ester.ee/record=b5537817*est

Novel Neural Network accelerator architectures for FPGAs = Uudsed närvivõrkude kiirendite arhitektuurid FPGAdele

Kerner, Madis 2024 https://www.ester.ee/record=b5675484*est <https://digikogu.taltech.ee/et/Item/3568fe35-19c3-43e6-9525-73c79371ab13>
<https://doi.org/10.23658/taltech.16/2024>

A novel physical fatigue assessment method utilizing heart rate variability and pulse arrival time towards personalized feedback with wearable sensors

Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo; Jervan, Gert Sensors 2022 / art. 1680 <https://doi.org/10.3390/s22041680>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numbrid, elu ja pilvetechnoloogia : [noorteadlaste konkursi Teadus kolme minutiga ettekanne]

Kõusaar, Jaak Teadus kolme minutiga : 2017-2019 2019 / lk. 122-125 : fot https://www.ester.ee/record=b5245642*est

Numerical simulation and experimental verification of downstream fish migration in a bulb turbine

Benigni, Helmut; Schneider, Josef; **Reckendorfer, Walter**; Schiffer, J.; **Tuhtan, Jeffrey Andrew**; Leithner, S.; Zenz, Gerald; Meusburger, P. 31st IAHR Symposium on Hydraulic Machinery and Systems 26/06/2022 - 01/07/2022 Trondheim, Norway. Vol. 1079 2022 / 10 p. : ill <https://doi.org/10.1088/1755-1315/1079/1/012101> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Numerical simulation and experimental verification of downstream fish migration in a Kaplan turbine

Benigni, Helmut; Schneider, Josef; Reckendorfer, Walter; Jaberg, Helmut; Zenz, Gerald; **Tuhtan, Jeffrey Andrew** IOP Conference Series: Earth and Environmental Science ; 774 2021 / art. 012149 <https://doi.org/10.1088/1755-1315/774/1/012149> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A numerical study for plant-independent evaluation of fractional-order PID controller performance

Alagoz, Baris Baykant; **Tepljakov, Aleksei**; Yeroglu, Celaeddin; Gonzalez, Emmanuel A.; Hossein Nia, S. Hassan; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 539-544 : ill <https://doi.org/10.1016/j.ifacol.2018.06.151> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

NV-SP: A new high performance and low energy NVM-Based scratch pad

Shalabi, Ameer; Paul, Kolin; Ghasempouri, Tara; Raik, Jaan 2020 IEEE Computer Society Annual Symposium on VLSI : ISVLSI 2020, 6-8 July 2020, Limassol, Cyprus 2020 / art. 19876866, p. 54-59 <https://doi.org/10.1109/ISVLSI49217.2020.00020>

Nädala lood: jätkuvad halvad uudised ehitusest

Rõuk, Viivika aripaev.ee 2023 [Nädala lood: jätkuvad halvad uudised ehitusest](#)

Obfuscating the hierarchy of a digital IP

Basiashevili, Giorgi; Abideen, Zain Ul; Pagliarini, Samuel Nascimento Embedded Computer Systems : Architectures, Modeling, and Simulation : 22nd International Conference, SAMOS 2022, Samos, Greece, July 3-7, 2022 : proceedings 2022 / p. 303-314 https://doi.org/10.1007/978-3-031-15074-6_28 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Object detection for rescue operations by high-altitude infrared thermal imaging collected by unmanned aerial vehicles

Polukhin, Andrii; Gordienko, Yuri; **Jervan, Gert**; Stirenko, Sergii Pattern Recognition and Image Analysis : 11th Iberian Conference, IbPRIA 2023, Alicante, Spain, June 27-30, 2023 : proceedings 2023 / p. 490-504 https://doi.org/10.1007/978-3-031-36616-1_39 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Observation and stabilisation of coupled timefractional reaction–advection–diffusion systems with spatiallylvarying coefficients

Chen, Juan; Tepļakov, Aleksei; Petlenkov, Eduard IET control theory and applications 2020 / p. 3128–3138 <https://doi.org/10.1049/iet-cta.2020.0520> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Observer design for boundary coupled fractional order distributed parameter systems

Zhou, Yanjiu; **Chen, Juan**; Cui, Baotong ICCMA 2019 : proceedings of the 7th International Conference on Control, Mechatronics and Automation 2019 / p. 384-388 : ill <https://doi.org/10.1109/ICCMA46720.2019.8988754>

Odavrobootika levik muudab lahinguvälja ja relvaturgu

Oidsalu, Meelis Postimees 2023 / Lk. 18-19 <https://dea.digar.ee/article/postimees/2023/11/14/20.1>

On antagonism between side-channel security and soft-error reliability in BNN inference engines

Lai, Xinhui; Lange, Thomas; **Balakrishnan, Aneesh**; Alexandrescu, Dan; **Jenihhin, Maksim** IFIP/IEEE 29th International Conference on Very Large Scale Integration (VLSI-SoC) 2021 / p. 1-6 <https://doi.org/10.1109/VLSI-SoC53125.2021.9606981>

On BTI aging rejuvenation in memory address decoders

Gürsoy, Cemil Cem; Kraak, Daniel; **Ahmed, Faisal**; Taouil, Mottaqiallah; **Jenihhin, Maksim**; Hamdioui, Said 2022 IEEE 23rd Latin American Test Symposium, LATS 2022 2022 / Code 184360 <https://doi.org/10.1109/LATS57337.2022.9936940>

On NBTI-induced aging analysis in IEEE 1687 reconfigurable scan networks

Damjanovic, Aleksa; Squillero, Giovanni; **Gürsoy, Cemil Cem**; **Jenihhin, Maksim** VLSI-SoC 2019 : 27th IFIP/IEEE International Conference on Very Large Scale Integration : [proceedings] 2019 / p. 335-340 : ill <https://doi.org/10.1109/VLSI-SoC.2019.8920313>

On robust stability of uncertain control systems with time delay : an approach based on the overlap of value sets

Ghorbani, Majid; Tepļakov, Aleksei; Petlenkov, Eduard IEEE Transactions on Automatic Control 2024 / p. 6349 - 6356 <https://doi.org/10.1109/TAC.2024.3381912> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On test generation for microprocessors for extended class of functional faults

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan VLSI-SoC: New technology enabler : 27th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2019 Cusco, Peru, October 6-9, 2019 : Revised and Extended Selected Papers 2020 / p. 21-44 <https://doi.org/10.1007/978-3-030-53273-4> [Conference proceedings at Scopus](#) [Article at Scopus](#)

On the estimation of complex circuits functional failure rate by machine learning techniques

Lange, Thomas; **Balakrishnan, Aneesh**; Glorieux, Maximilien; Alexandrescu, Dan; Sterpone, Luca 49th Annual IEEE/IFIP International Conference on Dependable Systems and Networks - DSN 2019 : Supplemental Volume : proceedings 2019 / p. 35-41 : ill <https://doi.org/10.1109/DSN-S.2019.00021>

On the shoulders of giants : colourful argument trees for academic writing

Kruusmaa, Maarja; Moktefi, Amirouche; Tuhtan, Jeffrey Andrew Diagrammatic representation and inference : 11th International Conference, Diagrams 2020, Tallinn, Estonia, August 24-28, 2020 : proceedings 2020 / p. 520-524 https://doi.org/10.1007/978-3-030-54249-8_48 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

On the use of defensive schemes for hardware security = Kaitseskeemid riistvara turvalisuse tagamiseks

Eslami, Mohammad 2024 https://www.ester.ee/record=b5701420*est <https://doi.org/10.23658/taltech.53/2024> <https://digikogu.taltech.ee/et/Item/068530be-4810-4489-9604-fb838d298b45>

On-chip sensors data collection and analysis for SoC health management

Shibin, Konstantin; Jenihhin, Maksim; Jutman, Artur; Devadze, Sergei; Tsertov, Anton 2023 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) 2023 / 6 p <https://doi.org/10.1109/DFT59622.2023.10313562>

Ontology design for automatic evaluation of web user interface usability [Electronic resource]

Robal, Tarmo; Marenkov, Jevgeni; Kalja, Ahto PICMET '17 : Portland International Conference on Management of Engineering and Technology : Technology Management for the Interconnected World : proceedings 2017 / p. 1-8 : ill. [USB]

Ontology-based design of educational trajectories

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard; Serbin, Aleksandr 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 4 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659893>

An open 3D CFD model for the investigation of flow environments experienced by freshwater fish

Khan, Ali Hassan; Hussmann, Karla Ruiz; Powalla, Dennis; Hoerner, Stefan; Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew Ecological Informatics 2022 / art. 101652, 12 p. : ill <https://doi.org/10.1016/j.ecoinf.2022.101652> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Open environmental data assimilation under unknown uncertainty and multiple spatio-temporal scales [Electronic resource] = Keskkonna avaandmete assimilatsioon tundmatu määramatuse ning erinevate aeg-ruumi skaalade korral

Miasayedava, Lizaveta 2024 https://www.ester.ee/record=b5673370*est <https://digikogu.taltech.ee/et/Item/9084dbfd-dadb-4f0c-b146-781bc6a5c487> <https://doi.org/10.23658/taltech.13/2024>

An open surface drifter for river flow field characterization

Fuentes-Pérez, Juan Francisco; Sanz-Ronda, Francisco Javier; Tuhtan, Jeffrey Andrew Sensors 2022 / art. nr. 9918 <https://doi.org/10.3390/s22249918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Open urban mmWave radar and camera vehicle classification dataset for traffic monitoring

Soom, Jürgen; Leier, Mairo; Janson, Karl; Tuhtan, Jeffrey A. IEEE Access 2024 / p. 65128 - 65140 <https://doi.org/10.1109/ACCESS.2024.3397013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An open-source library of large integer polynomial multipliers

Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento 24th International Symposium on Design and Diagnostics of Electronic Circuits and Systems, Vienna, Austria, April 7-9 2021 2021 / p. 145-150 : ill <https://doi.org/10.1109/DDECS52668.2021.9417065>

Open-source software for modeling and analysis of power networks in the dq0 reference frame

Levron, Yoash; Belikov, Juri 2017 IEEE Manchester PowerTech (PowerTech 2017) : Manchester, United Kingdom, 18-22 June 2017 2017 / p. 623-628 : ill <https://doi.org/10.1109/PTC.2017.7980912>

Optical spectrum services in Open Disaggregated Transport Networks = Optilise spektri teenused avatud lainepekkustihendus võrkudes

Kaeval, Kaida 2023 <https://doi.org/10.23658/taltech.13/2023> <https://digikogu.taltech.ee/et/Item/aeb5432f-9aff-4683-bcd6-1bc5b04432d0> https://www.ester.ee/record=b5557127*est

Optimal control of energy storage devices based on Pontryagin's minimum principle and the shortest path method

Zargari, Noa; Levron, Yoash; Belikov, Juri Proceedings of 2019 IEEE PES : Innovative Smart Grid Technologies Europe : (ISGT-Europe), Bucharest Romania, 29 September – 2 October, 2019 2019 / 5 p <https://doi.org/10.1109/ISGTEurope.2019.8905748>

Optimal robust filter of uncertain fractional order systems : a penalized deterministic approach

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard IEEE Control Systems Letters 2023 / p. 1075 - 1080 <https://doi.org/10.1109/LCSYS.2022.3230773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of physical activity recognition for real-time wearable systems : effect of window length, sampling frequency and number of features

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert Applied sciences 2019 / art. 4833, 14 p. : ill <https://doi.org/10.3390/app9224833> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An optimized design of delay-and energy-efficient Booth multiplier

Rafiq, Ahsan; Jenihhin, Maksim e-Prime - Advances in Electrical Engineering, Electronics and Energy 2024 / art. 100698 <https://doi.org/10.1016/j.prime.2024.100698> [Journal metrics at Scopus](#) [Article at Scopus](#)

Orchestration of serverless functions for scalable association rule mining with Apollo

Shahin, Mahtab; Janatian, Nasim; Poveda, Juan Aznar; Fahringer, Thomas; Ghasempouri, Tara; Shah, Syed Attique; Draheim, Dirk techrxiv.org 2024 / 20 p <https://doi.org/10.36227/techrxiv.172101151.16682756/v1>

OTA-C realization of PI λ brake and throttle controllers for autonomous vehicles

Dimeas, Ilias; Psychalinos, Costas; Elwakil, Ahmed; Tepljakov, Aleksei 2017 European Conference on Circuit Theory and Design (ECCTD 2017) : Catania, Italy, 4 - 6 September, 2017 2017 / p. 39-40 : ill <http://dx.doi.org/10.1109/ECCTD.2017.8093229>

An overview of FPGA-inspired obfuscation techniques

Abideen, Zain Ul; Gokulanathan, Sumathi; Aljafar, Muayad J.; Pagliarini, Samuel Nascimento arXiv.org 2023 / 30 p. : ill

<https://doi.org/10.48550/arXiv.2305.15999>

Pandeemia lõi uue maailma. Milline see on?

Päärt, Villu postimees 2020 / Lk. 8-9 : ill <https://leht.postimees.ee/6984645/pandeemia-loi-uue-maailma-milline-see-on>
https://www.ester.ee/record=b1072778*est

A Pan-European environmental flow concept

Parasiewicz, Piotr; **Tuhtan, Jeffrey Andrew**; Prus, Pawel; Suska, Katarzyna Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 108
https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf

Parallel critical path tracing fault simulation in sequential circuits

Kõusaar, Jaak; Ubar, Raimund-Johannes; Kostin, Sergei; Devadze, Sergei; Raik, Jaan Proceedings of 25th International Conference MIXED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS : MIXDES 2018 : Gdynia, Poland, June 21–23, 2018 2018 / p. 305-310 : ill <https://doi.org/10.23919/MIXDES.2018.8436880>

Parallel pseudo-exhaustive testing of array multipliers with data-controlled segmentation

Oyeniran, Adeboye Stephen; Azad, Siavoosh Payandeh; Ubar, Raimund-Johannes 2018 IEEE International Symposium on Circuits and Systems (ISCAS) : 27-30 May 2018, Florence, Italy : proceedings 2018 / 5 p.: ill
<https://doi.org/10.1109/ISCAS.2018.8350936> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

PASCAL : timing SCA resistant design and verification flow

Lai, Xinhui; Jenihhin, Maksim; Raik, Jaan; Paul, Kolin 2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS 2019) : 1-3 July 2019, Greece 2019 / p. 239-242 : ill <https://doi.org/10.1109/IOLTS.2019.8854458>

PATROL: an evolutionary APproach to Automatic Test Pattern Generation for hardware TROjan detection leveraging PSO-GA hybrid techniques

Hosseini, Mostafa; **Azarpeyvand, Ali; Ghasempouri, Tara** Proceedings of the 2024 IEEE 33rd Asian Test Symposium : ATS 2024 : Ahmedabad, India, 17-20 December 2024 2024 / 6 p. <https://doi.org/10.1109/ATS64447.2024.10915294> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Pavement defect segmentation in orthoframes with a pipeline of three convolutional neural networks

Lõuk, Roland; Riid, Andri; Pihlak, Rene; Tepljakov, Aleksei Algorithms 2020 / art. 198, 27 p. : ill <https://doi.org/10.3390/a13080198>
[Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pavement distress detection with deep learning using the orthoframes acquired by a mobile mapping system

Riid, Andri; Lõuk, Roland; Pihlak, Rene; Tepljakov, Aleksei; Vassiljeva, Kristina Applied sciences 2019 / art. 4829, 22 p. : ill
<https://doi.org/10.3390/app9224829> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A PD-type iterative learning algorithm for semi-linear distributed parameter systems with sensors/actuators

Zhang, Jianxiang; Cui, Baotong; Jiang, Zhengxian; **Chen, Juan** IEEE Access 2019 / p. 159037-159047 : ill
<https://doi.org/10.1109/ACCESS.2019.2950456> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Penalized least-squares method for LQR problem of singular systems

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard 62nd IEEE Conference on Decision and Control, CDC 2023, Singapore, 13-15 December 2023 2023 / p. 1251-1256 <https://doi.org/10.1109/CDC49753.2023.10383412> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Performance estimation of embedded applications on microcontrollers

Ruberg, Priit; Lass, Keijo; Liiv, Elvar; Ellervee, Peeter 2017 IEEE Nordic Circuits and Systems Conference (NORCAS 2017): NORCHIP and International Symposium of System-on-Chip (SoC 2017) : Linköping, Sweden, 23-25 October, 2017 2017 / p. 170-175 : ill <http://dx.doi.org/10.1109/NORCHIP.2017.8124964>

Performance improvement of decision tree : a robust classifier using tabu search algorithm

Hafeez, Muhammad Asfand; Rashid, Muhammad; Tariq, Hassan; **Abideen, Zain Ul**; Alotaibi, Saud S.; Sinky, Mohammed H. Applied Sciences (Switzerland) 2021 / art. 6728 <https://doi.org/10.3390/app11156728> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Persoon : Gert Jervan

Mänd, Krõõt Grete; **Jervan, Gert** Studioosus 2019 / lk. 6-9 https://www.ester.ee/record=b1558644*est

PHA-based feedback control of a biomimetic AUV for diver following : design, simulations and real-time experiments

Ratas, Mart; Chemori, Ahmed; **Kruusmaa, Maarja** European Control Conference (ECC) 2022 / p. 503-509
<https://doi.org/10.23919/ECC55457.2022.9838054>

Philosophie und Methode : Fachdisziplin Ethohydraulik – wie geht das?

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 11-22 https://doi.org/10.1007/978-3-658-32824-5_2

Phosphorus elimination and recovery from wastewater and process water with reusable nanocomposite magnetic particles

Ivanova Drenkova-Tuhtan, Asya 3rd European Sustainable Phosphorus Conference 2018 : (ESPC3), Helsinki, Finlandia Hall, 11-13 June 2018 : posters 2018 / 1 p.: ill <https://phosphorusplatform.eu/images/Conference/ESPC3/ESPC3-Final-programme-2018-06-08.pdf>

Phosphorus Elimination and Recovery from Wastewater with Reusable Nanocomposite Magnetic Particles

Ivanova Drenkova-Tuhtan, Asya 2018 <https://www.gbv.de/dms/tib-ub-hannover/1022381059.pdf> <https://stg.ibs-bw.de/aDISWeb/app.jsessionid=064570008531EF23FB37A62CE4C366F2>

Phosphorus recovery from sewage sludge - P leaching behaviour from various types of postprecipitated tertiary sludge

Monea, Marlena; Preyl, Volker; Meyer, Carsten; **Ivanova Drenkova-Tuhtan, Asya** 3rd IWA Resource Recovery Conference : IWA RR2019, Venice (Italy), 08-12 September 2019 / p. 63 https://www.iwarr2019.org/wp-content/uploads/2019/09/IWARR2019_PROGRAMME_extended-program_FINAL_06092019.pdf

Phosphorus recovery from sewage sludge – phosphorus leaching behavior from aluminum containing tertiary and anaerobically digested sludge

Monea, Marlena; Meyer, Carsten; Steinmetz, Heidrun; Schönberger, Harald; **Ivanova Drenkova-Tuhtan, Asya** Water science and technology Water science & technology 2020 / p. 1509-1522 <https://doi.org/10.2166/wst.2020.414> [Journal metrics at Scopus](#) [article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pick-and-place operation of linear Delta robots with low energy consumption

Vodovozov, Valery; Lehtla, Madis; Raud, Zoja; Petlenkov, Eduard 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830764>

Piezoelectric compensation of structural damping in metamaterial beams: stability and performance analysis

Alimohammadi, Hossein; Vassiljeva, Kristina; Hosseinia Kani, Seyed Hassan; Ellervee, Peeter; Petlenkov, Eduard Active and Passive Smart Structures and Integrated Systems XVIII 2024 / art. 129460J, 11 p. : ill <https://doi.org/10.1117/12.3024120> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

"Plekktrummis" on külas professor Gert Jervan

Viilup, Kaspar kultuur.err.ee 2023 ["Plekktrummis" on külas professor Gert Jervan](#)

Post-silicon validation of IEEE 1687 reconfigurable scan networks

Damljanovic, Aleksa; **Jutman, Artur; Squillero, Giovanni; Tšertov, Anton** 2019 IEEE European Test Symposium (ETS) : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/ETS.2019.8791546>

Practical demand side management and demand response in large scale buildings with multiple case studies

Köse, Ahmet; Sukhanov, Ivan; Maivel, Mikk; **Tepljakov, Aleksei; Hokmabad, Hossein Nourollahi; Petlenkov, Eduard** 2024 20th International Conference on the European Energy Market (EEM) 2024 / 5 p <https://doi.org/10.1109/EEM60825.2024.10608965> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Practical real-time data-driven approach for district cooling plant operational optimization

Sukhanov, Ivan; Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863248>

A pragmatic methodology for blind hardware trojan insertion in finalized layouts

Hepp, Alexander; **Perez, Tiago Diadami; Pagliarini, Samuel Nascimento;** Sigl, Georg ICCAD '22: Proceedings of the 41st IEEE/ACM International Conference on Computer-Aided Design 2022 / art. 69, p. 1-9 : ill <https://doi.org/10.1145/3508352.3549452> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Predict the remaining useful life in HVAC filters using a hybrid strategy

Alimohammadi, Hossein; Vassiljeva, Kristina; Petlenkov, Eduard; Kull, Tuule Mall; Thalfeldt, Martin CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in Rotterdam, The Netherlands 2022 / p. 1-8 <https://doi.org/10.34641/clima.2022.273>

Predicting students' behavior during an e-learning course using data mining

Umbleja, Kadri; Ichino, Manabu Interactive Collaborative Learning : proceedings of the 19th ICL Conference. Volume 2 2017 / p. 175-189 https://doi.org/10.1007/978-3-319-50340-0_14 [Journal metrics at Scopus](#) [Article at Scopus](#)

Preface

Robal, Tarmo; Kalibatiene, Diana; Karnitis, Girts; Ivanovic, Mirjana; Kirikova, Marite; Niedrite, Laila; Borzovs, Juris Joint Proceedings of Baltic DB&IS 2022 Doctoral Consortium and Forum co-located with 15th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2022) 2022 / p. ii <https://ceur-ws.org/Vol-3158/xpreface.pdf>

Preface

Robal, Tarmo; Haav, Hele-Mai; Penjam, Jaan; Matulevičius, Raimundas Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. v-vi <https://doi.org/10.1007/978-3-030-57672-1> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Preface

Lyapin, Alexandr; Murgul, Vera; Beskopylny, A.N.; Porskshayan, V.M.; Komakhidze, M.G.; Sukhinov, A.I.; Chetverushkin, B.N.; Avetisyan, A.I.; Kalyaev, I.A.; **Ubar, Raimund-Johannes** Journal of Physics: Conference Series 2021 / art. 011001, 1 p <https://doi.org/10.1088/1742-6596/2131/1/011001> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Preface

Hollstein, Thomas; Raik, Jaan; Kostin, Sergei; Tšertov, Anton; O'Connor, Ian; Reis, Ricardo VLSI-SoC: System-on-Chip in the Nanoscale Era – Design, Verification and Reliability, 24th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2016, Tallinn, Estonia, September 26-28, 2016 : Revised Selected Papers 2017 / p. V-VI <https://link.springer.com/book/10.1007/978-3-319-67104-8> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Preface from General Co-Chairs: PDP 2020

Daneshtalab, Masoud; Francesco, L.; Sjodin, Mikael 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing : PDP 2020, Västerås, Sweden, 11-13 March 2020 / 1 p <https://doi.org/10.1109/PDP50117.2020.00005>

Pressure and inertia sensing drifters for glacial hydrology flow path measurements

Alexander, Andreas; **Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew;** Hodson, Andrew J.; Schuler, Thomas V.; Kääb, Andreas The cryosphere 2020 / p. 1009-1023 <https://doi.org/10.5194/tc-14-1009-2020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pressure LaPlacian measurement with a bioinspired fish-shaped lateral line probe

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Schletterer, Martin; **Kruusmaa, Maarja** HydroSenSoft, International Symposium and Exhibition on Hydro-Environment Sensors and Software : 1-3 March 2017, Madrid, Spain 2017 / p. 1-6 : ill

Preventing distillation-based attacks on Neural Network IP

Grailoo, Mahdiah; Abideen, Zain Ul; Leier, Mairo; Pagliarini, Samuel Nascimento arXiv.org 2022 / 7 p. : ill <https://doi.org/10.48550/arXiv.2204.00292>

ProAct: Progressive Training for Hybrid Clipped Activation Function to Enhance Resilience of DNNs

Mousavi, Seyedhamidreza; **Ahmadilivani, Mohammad Hasan; Raik, Jaan; Jenihhin, Maksim; Daneshtalab, Masoud** arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2406.06313>

Probabilistic analysis of CMOS physical defects in VLSI circuits for test coverage improvement

Blyzniuk, M.; Kazymyra, I.; Kuzmich, W.; Pleskacz, Witold A.; **Raik, Jaan; Ubar, Raimund-Johannes** Microelectronics reliability 2001 / p. 2023-2040 : ill <https://www.sciencedirect.com/science/article/pii/S0026271401000920>

A probabilistic synapse with strained MTJs for Spiking Neural Networks

Pagliarini, Samuel Nascimento; Bhuin, Sudipta; Isgenc, Mehmet Meric; Biswas, Ayan Kumar; Pileggi, Larry IEEE Transactions on Neural Networks and Learning Systems 2020 / p. 1113-1123 : ill <https://doi.org/10.1109/TNNLS.2019.2917819>

Processor vulnerability detection with the aid of assertions : RISC-V case study

Heidari Iman, Mohammad Reza; Ahmadi-Pour, Sallar; Drechsler, Rolf; **Ghasempouri, Tara** techrxiv.org 2024 / p. 1-8 : ill <https://doi.org/10.36227/techrxiv.172101134.45466090/v1>

Professor TI-Hüppest: eesti keelest saab suur väljakutse

Jervan, Gert err.ee 2025 <https://www.err.ee/1609615346/professor-ti-huppest-eesti-keelest-saab-suur-valjakutse>

Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta

goodnews.ee 2023 [Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta](#) [Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta](#)

Profiling and schedule based forecast of electricity usage to improve energy performance of administrative buildings

Vassiljeva, Kristina; Matson, Margarita; Belikov, Juri; Petlenkov, Eduard Proceedings of the 30th ICE IEEE/ITMC Conference on Engineering, Technology, and Innovation: Digital Transformation on Engineering, Technology and Innovation, ICE 2024 2024 IEEE International Conference on Engineering, Technology, and Innovation (ICE/ITMC) 2024 / 8 p <https://doi.org/10.1109/ICE/ITMC61926.2024.10794299>

Promotion of the students' success in higher engineering education

Raud, Zoja; Vodovozov, Valery; Aksjonov, Andrei; Petlenkov, Eduard 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill <https://doi.org/10.1109/RTUCON.2017.8124806>

QoSInNoC: analysis of QoS-aware NoC architectures for mixed-criticality applications

Avramenko, Serhiy; **Azad, Siavoosh Payandeh; Niazmand, Behrad; Raik, Jaan; Jenihhin, Maksim** 21st IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems : DDECS 2018 : Budapest, Hungary 25-27 April, 2018 : proceedings 2018 / p. 67-72 : ill <https://doi.org/10.1109/DDECS.2018.00-10>

QoS-MAN : a novel QoS mapping algorithm for TSN-5G flows

Satka, Zenep; Ashjaei, Mohammad; Fotouhi, Hossein; **Daneshtalab, Masoud**; Sjodin, Mikael; Mubeen, Saad 2022 IEEE 28th International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA) 2022 / p. 220-227 <https://doi.org/10.1109/RTCSA55878.2022.00030>

QoT assessment of the optical spectrum as a service in disaggregated network scenarios

Kaeval, Kaida; Fehenberger, Tobias; Zou, Jim; Jansen, Sander Lars; Grobe, Klaus; Griesser, Helmut; Elbers, Jörg-Peter; **Tikas, Marko; Jervan, Gert** Journal of Optical Communications and Networking 2021 / art. 9436771, p. E1-E12 <https://doi.org/10.1364/JOCN.423530> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

RAM-based mergers for data sort and frequent item computation [Electronic resource]

Rjabov, Artjom; Sklyarov, Valery; Skliarova, Iuliia; **Sudnitsõn, Aleksander** 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), May 22 - 26, 2017, Opatija, Croatia : proceedings 2017 / p. 176-181 : ill. [CD-ROM] <http://dx.doi.org/10.23919/MIPRO.2017.7973413>

Ransomware attack as Hardware Trojan : a feasibility and demonstration study

Almeida, Felipe; Imran, Malik; Raik, Jaan; Pagliarini, Samuel Nascimento IEEE Access 2022 / p. 44827-44839 <https://doi.org/10.1109/ACCESS.2022.3168991> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

RAPTOR-UAV : real-time particle tracking in rivers using an unmanned aerial vehicle

Thumser, Philipp; Haas, Christian; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert** Earth surface processes and landforms 2017 / p. 2439-2446 : ill <https://doi.org/10.1002/esp.4199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Real time data communication for intelligent extended reality applications

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard 2020 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA), 22-24 June 2020 : proceedings 2021 / 6 p <https://doi.org/10.1109/CIVEMSA48639.2020.9132970>

Real-time gait anomaly detection using 1D-CNN and LSTM

Rostovski, Jakob; Ahmadiilvani, Mohammad Hasan; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab Digital Health and Wireless Solutions : First Nordic Conference, NCDHWS 2024, Oulu, Finland, May 7–8, 2024 : Proceedings, Part II 2024 / p. 260-278 https://doi.org/10.1007/978-3-031-59091-7_17 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Real-time localization and visualization of a sound source for virtual reality application

Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei 2017 25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) : Split, Croatia, September 21-23, 2017 2017 / p 219-224 : ill <https://doi.org/10.23919/SOFTCOM.2017.8115577> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Real-time regulation of beam-based feedback : implementing an FPGA solution for a continuous wave linear accelerator

Maalberg, Andrei; Kuntzsch, Michael; **Petlenkov, Eduard** Sensors 2022 / art. 6236, 22 p. : ill <https://doi.org/10.3390/s22166236> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reconfigurable systems in engineering education : best practices and future trends

Skliarova, Iuliia; Sklyarov, Valery; **Sudnitsõn, Aleksander; Kruus, Margus** Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 1084-1088 : ill <https://doi.org/10.1109/EDUCON.2017.7942983>

Reduction of power system dynamic models using sparse representations

Levron, Yoash; **Belikov, Juri** IEEE transactions on power systems 2017 / p. 3893-3900 : ill <https://doi.org/10.1109/TPWRS.2017.2648979>

Refactoring - key to success for constantly developed projects

Pöld, Janari; Kalja, Ahto; Robal, Tarmo Information modelling and knowledge bases XXVIII 2017 / p. 13-22 <https://doi.org/10.3233/978-1-61499-720-7-13> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Regions of exponential stability in coefficient space for linear systems on nonuniform discrete domains

Belikov, Juri; Kaparin, Vadim Journal of difference equations and applications 2017 / p. 878-892 : ill <https://doi.org/10.1080/10236198.2017.1304931> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Regulation of electron bunch arrival time for a continuous-wave linac : exploring the application of the H2 mixed-sensitivity problem

Maalberg, Andrei; Kuntzsch, Michael; Zenker, Klaus; **Petlenkov, Eduard** Physical Review Accelerators and Beams 2023 / art. 072801, 13 p. : ill <https://doi.org/10.1103/PhysRevAccelBeams.26.072801> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Regulation of the linear accelerator ELBE exploiting continuous wave mode of a superconducting RF cavity

Maalberg, Andrei; Kuntzsch, Michael; **Petlenkov, Eduard** 2022 American Control Conference (ACC) : Atlanta, GA, USA, 8-10 June 2022 : proceedings 2022 / p. 5346-5353 : ill <https://doi.org/10.23919/ACC53348.2022.9867172> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Relmagine lab : bridging the gap between hands-on, virtual and remote control engineering laboratories using digital twins and extended reality

Alsaleh, Saleh Ragheb Saleh; **Tepljakov, Aleksei**; **Köse, Ahmet**; **Belikov, Juri**; **Petlenkov, Eduard** IEEE Access 2022 / p. 89924-889943 : ill <https://doi.org/10.1109/ACCESS.2022.3199371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reimagining laboratory learning with digital twins and extended reality

Alsaleh, Saleh Ragheb Saleh 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 25-26 : ill https://www.ester.ee/record=b5570906*est

Reinforcement learning based MIMO controller for virtual inertia control in isolated microgrids

Škiparev, Vjatšeslav; **Belikov, Juri**; **Petlenkov, Eduard**; Levron, Yoash 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / art. 184786, 5 p. : ill <https://doi.org/10.1109/ISGT-Europe54678.2022.9960447>

The relevance of fluid-body interactions for habitat selection of two Iberian cyprinids during hydropeaking

Costa, Maria Joao; Godinho, Francisco; Romao, Filipe; Fuentes-Perez, Juan Francisco; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N.; Boavida, Isabel Proceedings 39th IAHR World Congress 2022 / p. 1454-1459 <https://doi.org/10.3850/IAHR-39WC2521711920221269>

Reliability improvements for multiprocessor systems by health-aware task scheduling

Schmidt, Robert; Massoud, Rehab; **Raik, Jaan**; Garcia-Ortiz, Alberto; Drechsler, Rolf 2018 IEEE 24th International Symposium on On-Line Testing and Robust System Design (IOLTS 2018) : 2 - 4 July 2018, Spain 2018 / p. 247-250 : ill <http://dx.doi.org/10.1109/IOLTS.2018.8474101>

Reliability-critical computation offloading in UAV swarms

Rahbari, Dadmehr; **Ahmed, Faisal**; **Jenihhin, Maksim**; **Alam, Muhammad Mahtab**; **Le Moullec, Yannick** IEEE Systems Journal 2024 / p. 1871-1882 <https://doi.org/10.1109/JSYST.2024.3432449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Removal and recovery of recalcitrant phosphorus species such as dissolved organo-phosphonates from domestic and industrial wastewater effluents

Ivanova Drenkova-Tuhtan, Asya; Rott, Eduard; Meyer, Carsten; Minke, Ralf; Schneider, M.; Mandel, Karl IWA Nutrient Removal and Recovery Conference, 1-3 September 2020, Helsinki, Finland 2020 / 4 p. : ill

Removal of phosphonates from synthetic and industrial wastewater with reusable magnetic adsorbent particles

Rott, Eduard; Nouri, Mohammad; Meyer, Carsten; Minke, Ralf; Schneider, Michael; Mandel, Karl; **Ivanova Drenkova-Tuhtan, Asya** Water research 2018 / p. 608-617 <https://doi.org/10.1016/j.watres.2018.08.067> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Replication-based deterministic testing of 2-dimensional arrays with highly interrelated cells

Azad, Siavoosh Payandeh; **Oyeniran, Adeboye Stephen**; **Ubar, Raimund-Johannes** 21st IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems : DDECS 2018 : Budapest, Hungary 25-27 April, 2018 : proceedings 2018 / p. 21-26 : ill <https://doi.org/10.1109/DDECS.2018.00011>

Representing gate-level SET faults by multiple SEU faults on RT-level

Bagbaba, Ahmet Cagri; **Jenihhin, Maksim**; **Ubar, Raimund-Johannes**; Sauer, Christian 2020 IEEE 26th International Symposium on On-Line Testing and Robust System Design (IOLTS), 13-15 July 2020 : proceedings 2020 / art. 19889351, 6 p. : ill <https://doi.org/10.1109/IOLTS50870.2020.9159715>

RESAA: A Removal and Structural Analysis Attack Against Compound Logic Locking

Almeida, Felipe; **Aksoy, Levent**; **Pagliarini, Samuel Nascimento** IEEE Transactions on Very Large Scale Integration (VLSI) Systems 2025 / p. 1348-1360 <https://doi.org/10.1109/TVLSI.2025.3534658>

RESAA: A Removal and Structural Analysis Attack Against Compound Logic Locking : [preprint]

Almeida, Felipe; **Aksoy, Levent**; **Pagliarini, Samuel Nascimento** arXiv.org 2025 / 12 p. : ill <https://doi.org/10.48550/arXiv.2409.16959>

RESCUE : cross-sectoral PhD training concept for interdependent reliability, security and quality

Vierhaus, Heinrich Theodor; **Jenihhin, Maksim**; Sonza Reorda, Matteo 2018 12th European Workshop on Microelectronics Education (EWME) : September 24–26, 2018 2018 / p. 45-50 : ill <https://doi.org/10.1109/EWME.2018.8629465>

A rescue demonstrator for interdependent aspects of reliability, security and quality towards a complete EDA flow

Raik, Jaan; Jenihhin, Maksim 2020 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2020 / p. 58 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9116424>

RESCUE EDA Toolset for interdependent aspects of reliability, security and quality in nanoelectronic systems design

Gürsoy, Cemil Cem; Cardoso Medeiros, Guilherme; Chen, Juanho; **Balakrishnan, Aneesh**; **Lai, Xinhui**; **Bagbaba, Ahmet Cagri**; **Raik, Jaan; Jenihhin, Maksim** DATE 2019 2019 / 1 p. : ill <https://doi.org/10.5281/zenodo.3362529> <https://past.date-conference.com/>

RESCUE: interdependent challenges of reliability, security and quality in nanoelectronic systems

Jenihhin, Maksim; Raik, Jaan 2020 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2020 / art. 19690741 , 6 p <https://doi.org/10.23919/DATE48585.2020.9116558>

Research overview on multi-species downstream migration measures at the fithydro test case HPP Bannwil

Kriewitz-Byun, Carl Robert; **Tuhtan, Jeffrey Andrew**; **Toming, Gert**; Albayrak, Ismail; Kammerer, Stephan; Vetsch, David Florian; Peter, Armin; Stoltz, Ulli; Gabl, Walter; Marbacher, Daniel FITHydro 2018 / 5 p. : ill <https://doi.org/10.3929/ethz-b-000308171>

Research: New method maps meltwater flows inside glaciers

Kruusmaa, Maarja news.err.ee 2023 [Research: New method maps meltwater flows inside glaciers Topology and spatial-pressure-distribution reconstruction of an englacial channel](https://news.err.ee/2023/research-new-method-maps-meltwater-flows-inside-glaciers-topology-and-spatial-pressure-distribution-reconstruction-of-an-englacial-channel)

Research: Robots assist in gaining glimpse of life underwater

Traks, Kristina news.err.ee 2023 [Research: Robots assist in gaining glimpse of life underwater](https://news.err.ee/2023/research-robots-assist-in-gaining-glimpse-of-life-underwater)

Resource-aware scene text recognition using learned features, quantization, and contour-based character extraction

Ademola, Olutosin Ajibola; Petlenkov, Eduard; Leier, Mairo IEEE Access 2023 / p. 56865 - 56874
<https://doi.org/10.1109/ACCESS.2023.3283931> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Resting EEG functional connectivity and graph theoretical measures for discrimination of depression

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järvelaid, Mari; **Raik, Jaan; Hinrikus, Hiie** 4th IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2017 : Orlando, Florida, USA, 16-19 February 2017 2017 / p. 389-392 : ill
<https://doi.org/10.1109/BHI.2017.7897287>

Resynthesis-based attacks against logic locking

Almeida, Felipe; Aksoy, Levent; Nguyen, Quang-Linh; Dupuis, Sophie; Flottes, Marie-Lise; **Pagliarini, Samuel Nascimento** 2023 24th International Symposium on Quality Electronic Design (ISQED) : San Francisco, 5-7 April 2023 2023 / 8 p. : ill
<https://doi.org/10.1109/ISQED57927.2023.10129403> [Article at Scopus](#) [Article at WOS](#)

Rethinking fish-friendliness of pumps by shifting focus to both safe and timely fish passage for effective conservation

Evans, Oliver J.; Norman, Josh; Carter, Liam J.; Hutchinson, T.; Don, A.; Wright, Rosalind M.; **Tuhtan, Jeffrey Andrew**; **Toming, Gert**; Bolland, Jonathan D. Scientific reports 2024 / art. 17888, 12 p. : ill <https://doi.org/10.1038/s41598-024-67870-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Retrofitting fractional-order dynamics to an existing feedback control system : from classical proportional-integral (PI) control to fractional-order proportional-derivative (FOPD) control

Gonzalez, Emmanuel A.; **Tepljakov, Aleksei**; Monje, Concepcion A.; Petráš, Ivo International research journal on innovations in engineering, science and technology 2017 / 6 p https://www.researchgate.net/publication/325989325_Retrofitting_Fractional-Order_Dynamics_to_an_Existing_Feedback_Control_System_From_Classical_Proportional-Integral_PI_Control_to_Fractional-Order_Proportional-Derivative_FOPD_Control

Reusable magnetic sorbent materials for advanced wastewater treatment and nutrient recovery

Ivanova Drenkova-Tuhtan, Asya; Meyer, Carsten; Inskeep, Caleb 3rd IWA Resource Recovery Conference : IWA RR2019, Venice (Italy), 08-12 September 2019 2019 / p. 69 https://www.iwarr2019.org/wp-content/uploads/2019/09/IWARR2019_PROGRAMME_extended-program_FINAL_06092019.pdf

Reusing verification assertions as security checkers for Hardware Trojan detection

Eslami, Mohammad; Ghasempouri, Tara; Pagliarini, Samuel Nascimento 2022 23rd International Symposium on Quality Electronic Design (ISQED), Santa Clara, CA, USA : 06-07 April 2022 2022 / p. 1-6 : ill
<https://doi.org/10.1109/ISQED54688.2022.9806292>

Review on Braking Energy Management in Electric Vehicles

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Energies 2021 / art. 4477 <https://doi.org/10.3390/en14154477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Review, analysis, and implementation of path selection strategies for 2D NoCs

Singh, Rajendra; Bohra, Manoj Kumar; Hemrajani, Prashant; Kalla, Anshuman; Bhatt, Devershi Pallavi; Purohit, Nitin; **Daneshtalab, Masoud** IEEE Access 2022 / p. 129245 - 129268 <https://doi.org/10.1109/ACCESS.2022.3227460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Revisiting the LQR problem of singular systems

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard IEEE/CAA Journal of Automatica Sinica 2024 / p. 2236-2252 : ill <https://doi.org/10.1109/JAS.2024.124665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Riik kui leiutis

Kruusmaa, Maarja Postimees 2018 / AK, lk. 6 [Maarja Kruusmaa: riik kui leiutis](#)

Riiklik lõpueksam - olla võimite olla?

Kukk, Vello Õpetajate Leht 2019 / lk. 4-5

Rivers 2.0 - transforming rivers into digital landscapes using unmanned aerial vehicles

Haas, Christian; Thumser, Philipp; **Tuhtan, Jeffrey Andrew** Hydrolink 2019 / p. 13–15 : ill https://fithydro.eu/wp-content/uploads/2019/03/HaasC._ThumserP._Tuhtan.J.A._2019_Rivers-2.0-Transforming_-Rivers_-into_-Digital_-Landscapes_Hydrolink.pdf

ROBOMINERS resilient reflectance/fluorescence spectrometers

Burlet, Christian; Stasi, Giorgia; **Godon, Simon Pierre; Gkliva, Roza; Piho, Laura; Ristolainen, Asko** EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023 2023 / EGU-12056 <https://doi.org/10.5194/egusphere-egu23-12056>

Robotik, keda inspireerib loodus

Kruusmaa, Maarja Horisont 2017 / lk. 26-31 : fot http://www.ester.ee/record=b1072243*est https://artiklid.elnet.ee/record=b2811777*est

Robotikaproffessor Maarja Kruusmaa teaduse rahastamisest : pole mõtet vahelejäänut peksta, kui süsteem lonkab

Berendson, Risto; **Kruusmaa, Maarja** Õhtuleht 2019 / lk. 2-3 [Robotikaproffessor Maarja Kruusmaa teaduse rahastamisest : pole mõtet vahelejäänut peksta, kui süsteem lonkab](#)

Robot ja põder käivad ühte jalga

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/robot-ja-poder-kaivad-uhte-jalga/>

Robotic feet modeled after ungulates improve locomotion on soft wet grounds

Godon, Simon Pierre; Ristolainen, Asko; Kruusmaa, Maarja Bioinspiration and biomimetics 2024 / art. 066009, 12 p. : ill <https://doi.org/10.1088/1748-3190/ad839c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robotid saadetakse tööle kohta, kuhu vähesed meist minna tahavad

digi.geenius.ee 2024 [Robotid saadetakse tööle kohta, kuhu vähesed meist minna tahavad](#)

Robotite kaasamine võib töökohti ka juurde luua

Alver, Anne-Mari; **Kruusmaa, Maarja** Eesti Päevaleht 2018 / Tööstus, lk. 28

Robust D-stability analysis of fractional-order controllers

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard 2023 American Control Conference, ACC 2023, San Diego, 31 May-2 June 2023 : proceedings 2023 / p. 3871-3876 : ill <https://doi.org/10.23919/ACC55779.2023.10156257> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Robust FOPID stabilization for Smith Predictor structures

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard 61st IEEE Conference on Decision and Control, CDC 2022, Cancun, 6 December - 9 December 2022, proceedings 2022 / p. 1696-1701 <https://doi.org/10.1109/CDC51059.2022.9993283> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Robust fractional order singular Kalman filter

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard International journal of robust and nonlinear control 2024 / p. 602-627 : ill <https://doi.org/10.1002/rnc.6990> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust PID controller design for continuous-time systems via reduced routh parameters = Pidevaja süsteemide robustse PID kontrolleri süntees taandatud Routh parameetrite kaudu

Artemtšuk, Igor 2019 <https://digi.lib.ttu.ee/i/?13259>

Robust stabilization criteria of a general form of fractional-order controllers for interval fractional-order plants with complex uncertain parameters

Ghorbani, Majid ISA transactions 2022 / p. 140-151 : ill <https://doi.org/10.1016/j.isatra.2022.02.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust stabilization of interval fractional-order plants with an interval time delay by fractional-order proportional integral derivative controllers

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard IET Control Theory and Applications 2024 / p. 614-625

<https://doi.org/10.1049/cth2.12594> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust stability analysis of interval fractional-order plants with interval time delay and general form of fractional-order controllers

Ghorbani, Majid; Tavakoli-Kakhki, Mahsan; Tepljakov, Aleksei; Petlenkov, Eduard; Farnam, Arash; Crevecoeur, Guillaume IEEE Control Systems Letters 2022 / p. 1268-1273 <https://doi.org/10.1109/LCSYS.2021.3091525> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust stability analysis of Smith predictor based interval fractional-order control systems: a case study in level control process

Ghorbani, Majid; Tavakoli-Kakhki, Mahsan; Tepljakov, Aleksei; Petlenkov, Eduard IEEE/CAA Journal of Automatica Sinica 2023 / p. 762-780 <https://doi.org/10.1109/JAS.2022.105986> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust stability region of PI controllers for an interval time delayed load frequency control

Ghorbani, Majid; Nosrati, Komeil; Tepljakov, Aleksei; Belikov, Juri; Petlenkov, Eduard IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p

<https://doi.org/10.1109/ISGTEUROPE62998.2024.10863205>

Robust stability testing function for a complex interval family of fractional-order polynomials

Ghorbani, Majid; Rezaei, Hossein; Tepljakov, Aleksei; Petlenkov, Eduard Journal of the Franklin Institute 2022 / p. 10038 - 10057

<https://doi.org/10.1016/j.franklin.2022.09.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

RoCo-NAS : robust and compact neural architecture search

Geraeinejad, Vahid; Sinaei, Sima; Modarressi, Mehdi; Daneshtalab, Masoud 2021 International Joint Conference on Neural Networks (IJCNN) : proceedings 2021 / 8 p. : ill <https://doi.org/10.1109/IJCNN52387.2021.9534460> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

RTL assertion mining with automated RTL-to-TLM abstraction

Ghasempouri, Tara; Danese, Alessandro; Pravadelli, Graziano; Bombieri, Nicola; Raik, Jaan Proceedings of the 2019 Forum on specification & Design Languages (FDL) 2019 / 8 p. : ill <https://doi.org/10.1109/FDL.2019.8876941>

Run-time reconfigurable instruments for advanced board-level testing

Aleksejev, Igor; Jutman, Artur; Devadze, Sergei IEEE instrumentation & measurement magazine 2017 / p. 23-30 : ill

<https://doi.org/10.1109/MIM.2017.8006390>

Ränioruga sideme katkestamine ohustab meie IT-sektorit

Raik, Jaan postimees.ee 2023 / Lk. 13 [Ränioruga sideme katkestamine ohustab meie IT-sektorit](#)

SAFFIRA: a Framework for Assessing the Reliability of Systolic-Array-Based DNN Accelerators

Taheri, Mahdi; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim; Pappalardo, Salvatore; Jimenez, Paul; Deveautour, Bastien; Bosio, Alberto 2024 27th International Symposium on Design & Diagnostics of Electronic Circuits & Systems (DDECS) : 03-05 April 2024, Kielce, Poland 2024 / p. 19–24 : ill <https://doi.org/10.1109/DDECS60919.2024.10508925>

Salmon behavioural response to robots in an aquaculture sea cage

Kruusmaa, Maarja; Gkliva, Roza; Tuhtan, Jeffrey Andrew; Tuvikene, A.; Alfredsen, J.A. Royal Society open science 2020 / art. 191220, 14 p. : ill <https://doi.org/10.1098/rsos.191220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SALSy : security-aware layout synthesis

Eslami, Mohammad; Perez, Tiago Diadami; Pagliarini, Samuel Nascimento arXiv.org 2024 / 13 p. : ill

<https://doi.org/10.48550/arXiv.2308.06201>

SCAAT: Secure cache alternative address table for mitigating cache logical side-channel attacks

Shalabi, Ameer; Ghasempouri, Tara; Ellervee, Peeter; Raik, Jaan 2020 23rd Euromicro Conference on Digital System Design (DSD), 26-28 August 2020, Kranj, Slovenia 2020 / art. 20035366, p. 213–217 <https://doi.org/10.1109/DSD51259.2020.00043>

Scalable parallel genetic algorithm for solving large integer linear programming models derived from behavioral synthesis

Fallah, Mohammad K.; Mirhosseini, M.; Fazlali, Mahmood; Daneshtalab, Masoud 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing : PDP 2020, Västerås, Sweden, 11-13 March 2020 2020 / p. 390-394

<https://doi.org/10.1109/PDP50117.2020.00066>

A scalable technique to identify true critical paths in sequential circuits

Ubar, Raimund-Johannes; Kostin, Sergei; Jenihhin, Maksim; Raik, Jaan Proceedings 2017 IEEE 20th International Symposium on Design and Diagnostics of Electronic Circuit & Systems (DDECS) : April 19-21, 2017, Dresden, Germany 2017 / p. 152-157 : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7934553>

SCALLER: standard cell assembled and local layout effect-based ring oscillators

Aljafar, Muayad J.; UI Abideen, Zain; Peetermans, Adriaan; Gierlichs, Benedikt; **Pagliarini, Samuel** IEEE Embedded Systems Letters 2024 / p. 493 - 496 <https://doi.org/10.1109/LES.2024.3459730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SCARF : securing chips with a robust framework against fabrication-time hardware trojans

Eslami, Mohammad; Ghasempouri, Tara; Pagliarini, Samuel Nascimento IEEE Transactions on Computers 2024 / p. 2761-2775 <https://doi.org/10.1109/TC.2024.3449082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SCARF : securing chips with a robust framework against fabrication-time hardware Trojans : preprint

Eslami, Mohammad; Ghasempouri, Tara; Pagliarini, Samuel Nascimento arXiv.org 2024 / 14 p. : ill <https://doi.org/10.48550/arXiv.2402.12162>

Scene parsing using Fully Convolutional Network for Semantic Segmentation

Ali, Nisar; Ijaz, Ali Zeeshan; Ali, Raja Hashim; Abideen, Zain UI; Bais, Abdul 2023 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Regina, SK, Canada, 2023 2023 / p. 180-185 <https://doi.org/10.1109/CCECE58730.2023.10288934>

Schedulability analysis of best-effort traffic in TSN networks

Houtan, Bahar; Ashjaei, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Afshar, Sara; Mubeen, Saad 26th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) 2021 / 8 I <https://doi.org/10.1109/ETFA45728.2021.9613511>

Scientific language connects - an interview with Maarja Kruusmaa

Kruusmaa, Maarja Eesti Teaduste Akadeemia in words and images 2018 2019 / p. 48-53 : phot https://www.ester.ee/record=b5178522*est

Seasonal and daily upstream movements of brown trout *Salmo trutta* in an Iberian regulated river

Garcia-Vega, Ana; Sanz-Ronda, Francisco Javier; Fuentes-Pérez, Juan Francisco Knowledge and management of aquatic ecosystems 2017 / art. 9, p. 1-9 : ill <https://doi.org/10.1051/kmae/2016041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A security verification template to assess cache architecture vulnerabilities

Ghasempouri, Tara; Raik, Jaan; Paul, Kolin; Reinbrecht, Cezar; Hamdioui, Said; Taouil, M. 2020 23rd International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS), April 22nd – 24th 2020 Novi Sad, Serbia : Proceedings 2020 / art. 9095707, 6 p <https://doi.org/10.1109/DDECS50862.2020.9095707>

A security-aware and LUT-based CAD flow for the physical synthesis of hASICs

Abideen, Zain UI; Perez, Tiago Diadami; Martins, Mayler; **Pagliarini, Samuel Nascimento** IEEE transactions on computer-aided design of integrated circuits and systems 2023 / p. 3157-3170 : ill <https://doi.org/10.1109/TCAD.2023.3244879> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Security-aware physical synthesis of integrated circuits = Integraallülituste turvateadlik füüsiline süntees

Perez, Tiago Diadami 2023 <https://doi.org/10.23658/taltech.4/2023> <https://digikogu.taltech.ee/et/Item/440f41fd-0950-4b5c-8e47-4f75a754cdae> https://www.ester.ee/record=b5536743*est

Self assessment tool to bridge the gap between XR Technology, SMEs, and HEIs

Köse, Ahmet; Tepļakov, Aleksei; Alsaleh, Saleh Ragheb Saleh; Petlenkov, Eduard Extended Reality : First International Conference, XR Salento 2022, Lecce, Italy, July 6-8, 2022, Proceedings, Part I 2022 / p. 296–311 : ill https://doi.org/10.1007/978-3-031-15546-8_25 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at Scopus](#)

Self-aware cyber-physical systems

Bellman, K.; Landauer, C.; Dutt, N.; Tammemäe, Kalle ACM transactions on cyber-physical systems 2020 / p. 1–26 <https://doi.org/10.1145/3375716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Self-aware fog computing in private and secure spheres

Tammemäe, Kalle; Jantsch, Axel; **Kuusik, Alar;** Preden, Jürjo-Sören; **Õunapuu, Enn** Fog computing in the internet of things : intelligence at the edge 2018 / p. 71-99 : ill http://www.ester.ee/record=b4692402*est https://doi.org/10.1007/978-3-319-57639-8_5

Self-driving car ISEAUTO for research and education

Sell, Raivo; Leier, Mairo; Rassõlkin, Anton; Ernits, Juhan-Peep Proceedings of the 2018 19th International Conference on Research and Education in Mechatronics : (REM 2018), Delft, The Netherlands, June 7-8, 2018 2018 / p. 111-116 : ill <https://doi.org/10.1109/REM.2018.8421793>

Sensing drifters for glacial hydrology measurements

Alexander, Andreas; **Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew**; Hodson, Andreas J. Svalbard Science Conference 2019 : book of abstracts 2019 / p. 50 <https://www.forskningsradet.no/contentassets/f464e19d364c40b59170a1956a98e747/book-of-abstracts-ssc2019.pdf>

Service margins for wide-band optical spectrum services implemented in long-haul Raman-enabled networks

Kaeval, Kaida; Patri, Sai Kireet; Pedreno-Manresa, Jose-Juan; Grobe, Klaus; Elbers, Jörg-Peter; Griesser, Helmut; Tikas, Marko; **Jervan, Gert** Optical Fiber Communications Conference and Exhibition, OFC 2023 : Proceedings 2023 / art. W3H.6 <https://doi.org/10.1364/OFC.2023.W3H.6>

Shape classification using hydrodynamic detection via a sparse large-scale 2D-sensitive artificial lateral line

Wolf, Ben J.; Pirih, Primož; **Kruusmaa, Maarja**; Van Netten, Sietse M. IEEE Access 2020 / p. 11393 - 11404 <https://doi.org/10.1109/ACCESS.2020.2965316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ship wake analysis using an array of nearbed sensors

Kruusmaa, Maarja; Parnell, Kevin Ellis; Ristolainen, Asko; Rätsep, Margus; **Soomere, Tarmo** Abstracts : [BSSC 2019] 2019 / p. 292 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Side-channel attacks on triple modular redundancy schemes

Almeida, Felipe; Aksoy, Levent; Raik, Jaan; Pagliarini, Samuel Nascimento 2021 IEEE 30th Asian Test Symposium ATS 2021 : proceedings 2021 / p. 79-84 : ill <https://doi.org/10.1109/ATS52891.2021.00026> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A side-channel hardware trojan in 65nm CMOS with 2μW precision and multi-bit leakage capability

Perez, Tiago Diadami; Pagliarini, Samuel Nascimento 2022 27th Asia and South Pacific Design Automation Conference (ASP-DAC) : 17-20 January 2022 : Taipei, Taiwan 2022 / p. 9-10 : ill <https://doi.org/10.1109/ASP-DAC52403.2022.9712490>

Side-channel Trojan insertion - a practical foundry-side attack via ECO

Perez, Tiago Diadami; Imran, Malik; Vaz, Pablo; Pagliarini, Samuel Nascimento 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea, May 22-28, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/ISCAS51556.2021.9401481> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Similarity and dissimilarity measures for mixed feature-type symbolic data

Ichino, Manabu; **Umbleja, Kadri** Studies in Theoretical and Applied Statistics 2018 / p. 131-144 <https://doi.org/10.1007/978-3-319-73906-9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Similarity of length scales in high-Reynolds-number wall-bounded flows

Gustenyov, Nikolay; **Egerer, Margit**; Hultmark, Marcus; Smits, Alexander J.; Bailey, Sean C.C. Journal of Fluid Mechanics 2023 / art. A17 <https://doi.org/10.1017/jfm.2023.417> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation of RF noise propagation to relativistic electron beam properties in a linear accelerator

Maalberg, Andrei; Kuntzsch, Michael; **Petlenkov, Eduard** IFAC-PapersOnLine 2020 / p. 348-354 <https://doi.org/10.1016/j.ifacol.2020.12.184> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Simulation study of electric vehicles at fuzzy PID control of braking torque

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; **Raud, Zoja** Informatics in Control, Automation and Robotics : 17th International Conference, ICINCO 2020 Lieusaint - Paris, France, July 7–9, 2020, Revised Selected Papers 2022 / p. 261–290 https://doi.org/10.1007/978-3-030-92442-3_15 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Simulation-based equivalence checking between IEEE 1687 ICL and RTL

Damljanovic, Aleksa; **Jutman, Artur**; Portolan, Michele; Tšertov, Anton 2019 IEEE International Test Conference (ITC) 2019 / paper. 7.3, 8 p. : ill <https://doi.org/10.1109/ITC44170.2019.9000181>

Simultaneous flow measurement and deformation tracking for passive flow control experiments involving fluid–structure interactions

Kösters, Wolf Iring; Hoerner, Stefan Journal of Fluids and Structures 2023 / art. 103956 <https://doi.org/10.1016/j.jfluidstructs.2023.103956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Smart fish counter for monitoring species, size, migration behaviour and environmental conditions

Tuhtan, Jeffrey Andrew; Dubrovinskaya, Elizaveta; Miasayedava, Lizaveta; Pattanaik, Vishwajeet; Soom, Jürgen; Mockenhaupt, Bernd; Schütz, Cornelia; Haas, Christian; Thumser, Philipp 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-4 : ill https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192625_67371.docx

Smart-contract value-transfer protocols on a distributed mobile application platform [Online resource]

Dai, Patrick; Mahi, Neil; Earls, Jordan; **Norta, Alexander** 2017 <https://qtum.org/user/pages/03.tech/01.white-papers/Qtum%20Whitepaper.pdf>

Smartgrid-based hybrid digital twins framework for demand side recommendation service provision in distributed power systems

Onile, Abiodun Emmanuel; Petlenkov, Eduard; Levron, Yoash; Belikov, Juri Future generation computer systems 2024 / p. 142-156 : ill <https://doi.org/10.1016/j.future.2024.03.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Soft fluidic actuator for locomotion in multi-phase environments

Gkliva, Roza; Kruusmaa, Maarja IEEE robotics and automation letters 2022 / p. 10462-10469
<https://doi.org/10.1109/LRA.2022.3192204> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Software implementation of FOPID controllers with tuning capability for fractional FOPDT plants

Tepljakov, Aleksei; Alagoz, Baris Baykant 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 199-203 <https://doi.org/10.1109/TSP52935.2021.9522602>

Software parser and analyser for hardware performance estimations

Ruberg, Priit; Meinberg, Erki; **Ellervee, Peeter** 2022 International Conference on Electrical, Computer and Energy Technologies (ICECET), Prague, Czech Republic, 20-22 July 2022 / p. 1-6 <https://doi.org/10.1109/ICECET55527.2022.9872951>

Software-based mitigation for memory address decoder aging

Kraak, D. H. P.; **Gürsoy, Cemil Cem; Jenihhin, Maksim; Raik, Jaan** LATS 2019 : 20th IEEE Latin American Test Symposium : Santiago, Chile, March 11th - 13th 2019 / 6 p. : ill <https://doi.org/10.1109/LATW.2019.8704595>

Software-based self-test for microprocessors with high-level decision diagrams = Mikroprotsessorite tarkvara-põhine enesetestimine kõrgtasandi otsustusdiagrammide põhjal

Jasnetski, Artjom 2018 <https://digi.lib.ttu.ee/ii/?10629> https://www.ester.ee/record=b5151486*est

Software-based self-test with decision diagrams for microprocessors

Ubar, Raimund-Johannes; Jasnetski, Artjom; **Tšertov, Anton;** Oyeniran, Adeboye Stephen 2018

Software-level TMR approach for on-board data processing in space applications

Janson, Karl; Treudler, Carl Johann; **Hollstein, Thomas; Raik, Jaan; Jenihhin, Maksim;** Fey, Goerschwin 21st IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems : DDECS 2018 : Budapest, Hungary 25-27 April, 2018 : proceedings 2018 / p. 147-152 : ill <https://doi.org/10.1109/DDECS.2018.00033>

A sparse minimal-order dynamic model of power networks based on DQ0 signals

Belikov, Juri; Levron, Yoash IEEE transactions on power systems 2018 / p. 1059-1067 : ill
<https://doi.org/10.1109/TPWRS.2017.2702746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spatial preferences of Iberian barbel in a vertical slot fishway under variable hydrodynamic scenarios

Fuentes-Pérez, Juan Francisco; Eckert, Mario; **Tuhtan, Jeffrey Andrew;** Ferreira, Maria Teresa; **Kruusmaa, Maarja;** Branco, Paulo Ecological engineering 2018 / p. 131-142 : ill <https://doi.org/10.1016/j.ecoleng.2018.10.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Special issue on recent advances in the design and applications of fractional-order circuits and systems : [brief introduction]

Psychalinos, Costas; Elwakil, Ahmed S.; Allagui, Anis; **Tepljakov, Aleksei** International journal of electronics and communications 2017 / p. 132-135 <https://doi.org/10.1016/j.aeeu.2017.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Special session : approximation and fault resiliency of DNN accelerators

Ahmadilivani, Mohammad Hasan; Barbareschi, Mario; Barone, Salvatore; Bosio, Alberto; **Daneshtalab, Masoud;** Torca, Salvatore Della; Gavarini, Gabriele; **Jenihhin, Maksim; Raik, Jaan; Taheri, Mahdi** 2023 IEEE 41st VLSI Test Symposium (VTS) : proceedings 2023 / 10 p. : ill <https://doi.org/10.1109/VTS56346.2023.10140043> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Special session : AutoSoC - a suite of open-source automotive SoC benchmarks

Silva, Felipe Augusto da; **Bagbaba, Ahmet Cagri;** Ruospo, Annachiara; **Jenihhin, Maksim** 2020 IEEE 38th VLSI TEST SYMPOSIUM (VTS) - VTS 2020 : proceedings 2020 / 9 p. : ill <https://doi.org/10.1109/VTS48691.2020.9107599> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Special session: in-field ML-assisted intermittent fault localization and management in RISC-V SoCs

Selg, Hardi; Shibin, Konstantin; Tsertov, Anton; Jenihhin, Maksim; Ellervee, Peeter; Raik, Jaan 2024 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) 2024
<https://doi.org/10.1109/DFT63277.2024.10753541> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Special session: reliability assessment recipes for DNN accelerators

Ahmadilivani, Mohammad Hasan; Bosio, Alberto; Deveautour, Bastien; Dos Santos, Fernando Fernandes; Guerrero-Balaguera, Juan-David; **Jenihhin, Maksim;** Kritikakou, Angeliki; Sierra, Robert Limas; **Raik, Jaan; Taheri, Mahdi** 42nd IEEE VLSI Test Symposium, VTS 2024 2024 / 11 p. : ill <https://doi.org/10.1109/VTS60656.2024.10538707> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Split-chip design to prevent IP reverse engineering

Pagliarini, Samuel Nascimento; Sweeney, Joseph; Mai, Ken; Blanton, Shawn; Mitra, Subhasish; Pileggi, Larry IEEE Design and Test 2020 / p. 109-118 <https://doi.org/10.1109/MDAT.2020.3033255> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spontaneous webcam instance for user attention tracking

Robal, Tarmo PICMET19 : Portland International Conference on management of engineering and technology : Technology and Management in the World of Intelligent Systems : proceedings 2019 / 8 p. : ill <https://doi.org/10.23919/PICMET.2019.8893798>

Stabilization and stability robustness of coupled non-constant parameter time fractional PDEs

Chen, Juan; Tepljakov, Aleksei; Petlenkov, Eduard IEEE Access 2019 / p. 163969 - 163980 : ill <https://doi.org/10.1109/ACCESS.2019.2951058> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stabilization and uncertainty analysis of a time-fractional reaction diffusion equation cascaded with a time-fractional hyperbolic partial differential equation

Chen, Juan; Zhuang, Bo; Tepljakov, Aleksei; Petlenkov, Eduard The Asian Journal of Control 2022 / p. 2294-2310 <https://doi.org/10.1002/asjc.2637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stabilizing region of fractional-order proportional integral derivative controllers for interval delayed fractional-order plants

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard Asian Journal of Control 2023 / p. 1145 - 1155 <https://doi.org/10.1002/asjc.2894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stabilizing region of fractional-order proportional integral derivative controllers for interval fractional-order plants

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard Transactions of the Institute of Measurement and Control 2023 / p. 546-556 : ill <https://doi.org/10.1177/01423312221117866> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stability analysis and energy harvesting in lumped parameter systems with internally coupled resonators

Alimohammadi, Hossein; Vassiljeva, Kristina; Hosseinia Kani, Seyed Hassan; Petlenkov, Eduard JVC/Journal of Vibration and Control 2024 / 13 p. : ill <https://doi.org/10.1177/10775463241241161> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stability and stabilizability of linear time-delay systems on homogeneous time scales

Belikov, Juri; Bartosiewicz, Zbigniew Proceedings of the Estonian Academy of Sciences 2017 / p. 124-136 <https://doi.org/10.3176/proc.2017.2.02> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2820925*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Standards-based tools and services for building lifelong learning pathways

Sgourpoulou, C.; Voyiatzis, I.; Koutoumanos, A.; **Ellervee, Peeter** Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON) : 25-28 April 2017, Athens, Greece 2017 / p. 1619-1621 <https://doi.org/10.1109/EDUCON.2017.7943065> <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7943065>

State and output feedback boundary control of time fractional pde–fractional ode cascades with space-dependent diffusivity

Chen, Juan; Tepljakov, Aleksei; Petlenkov, Eduard; Chen, Yangquan; Zhuang, Bo IET Control Theory and Applications 2020 / p. 3589 - 3600 <https://doi.org/10.1049/iet-cta.2019.1015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

State estimation and control for small low-cost autonomous underwater vehicles = Meetodid olekute hindamiseks ja juhtimiseks soodsa hinnaga autonoomsetele allveerobotitele

Meurer, Christian 2021 https://www.ester.ee/record=b5435482*est <https://digikogu.taltech.ee/et/Item/717111f2-51e3-4176-b0b8-b369064b26a2> <https://doi.org/10.23658/taltech.27/2021>

Stationary vs. non-stationary mobile learning in MOOCs

Zhao, Yue; **Robal, Tarmo;** Lofi, Christoph; Hauff, Claudia UMAP '18 : Adjunct Publication of the 26th Conference on User Modeling, Adaptation and Personalization, Singapore, July 08-11, 2018 : proceedings 2018 / p. 299-303 <https://doi.org/10.1145/3213586.3225241>

Steroidid äri jaoks: energiainformaatika tahab viia Eesti majanduse uuele tõusule

postimees.ee 2023 [Steroidid äri jaoks: energiainformaatika tahab viia Eesti majanduse uuele tõusule](#)

Strengthening active learning with a reinforcement approach in engineering education

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2024 IEEE 65th International Scientific Conference on Power and Electrical

Structural decision diagrams in digital test : theory and applications

Ubar, Raimund-Johannes; Raik, Jaan; Jenihhin, Maksim; Jutman, Artur 2024 <https://doi.org/10.1007/978-3-031-44734-1>
https://www.ester.ee/record=b5734441*est

Student behavior changes in Estonia revealed by e-learning technology

Udal, Andres; Kukk, Vello; Jaanus, Martin; Umbleja, Kadri; Piho, Gunnar Digital Turn in Schools - Research, Policy, Practice : proceedings of ICEM 2018 Conference 2019 / p. 83-90 https://doi.org/10.1007/978-981-13-7361-9_6 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A study into elevator passenger in-cabin behaviour on a smart-elevator platform

Robal, Tarmo; Basov, Kevin; Reinsalu, Uljana; Leier, Mairo Baltic Journal of Modern Computing 2022 / p. 665-688 : ill <https://doi.org/10.22364/bjmc.2022.10.4.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Subsurface flow path modeling from inertial measurement unit sensor data using infinite hidden Markov models

Piho, Laura; Kruusmaa, Maarja IEEE sensors journal 2022 / p. 621-630 : ill <https://doi.org/10.1109/JSEN.2021.3128838> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Supply air temperature control in air handling unit based on federated learning

Eik, Marika; Nourollahi Hokmabad, Hossein; Köse, Ahmet; Husev, Oleksandr; Belikov, Juri 2024 IEEE Power and Energy Society General Meeting, PESGM 2024, Seattle, 21 July 25 July, 2024 2024 / 5 p. : ill <https://doi.org/10.1109/PESGM51994.2024.10688759> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Supporting end-to-end data propagation delay analysis for TSN-based distributed vehicular embedded systems

Houtan, Bahar; Ashjaei, Mohammad; Daneshtalab, Masoud; Sjödin, Mikael; Mubeen, Saad Journal of Systems Architecture 2023 / art. 102911 <https://doi.org/10.1016/j.sysarc.2023.102911>

Surface vessel localization from wake measurements using an array of pressure sensors in the littoral zone

Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew Ocean engineering 2021 / art. 109156 <https://doi.org/10.1016/j.oceaneng.2021.109156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surrogate data method requires end-matched segmentation of electroencephalographic signals to estimate non-linearity

Päeske, Laura; Bachmann, Maie; Pöld, Toomas; Oliveira, Sara Pereira Mendes de; Lass, Jaanus; Raik, Jaan; Hinrikus, Hiie Frontiers in physiology 2018 / 1350 ; 9 p. : ill <https://doi.org/10.3389/FPHYS.2018.01350> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Survey on architectural attacks : a unified classification and attack model

Ghasempouri, Tara; Raik, Jaan; Reinbrecht, Cezar; Hamdioui, Said; Hamdioui, Said ACM Computing Surveys 2023 / art. 42 <https://doi.org/10.1145/3604803> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey on split manufacturing : attacks, defenses, and challenges

Perez, Tiago Diadami; Pagliarini, Samuel Nascimento IEEE Access 2020 / p. 184013-184035 <https://doi.org/10.1109/ACCESS.2020.3029339> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Survey on the benefits of using memristors for PUFs

Aljafar, Muayad J.; Acken, John M. International Journal of Parallel, Emergent and Distributed Systems 2022 / p. 40-67 <https://doi.org/10.1080/17445760.2021.1972295>

A survey on UAV computing platforms : a hardware reliability perspective

Ahmed, Faisal; Jenihhin, Maksim Sensors 2022 / art. 6286 <https://doi.org/10.3390/s22166286> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surviving the unforeseen - teaching IT and engineering students during COVID-19 outbreak

Ruberg, Priit; Ellervee, Peeter; Tammemäe, Kalle; Reinsalu, Uljana; Rähni, Andres; Robal, Tarmo Proceedings - Frontiers in Education Conference, FIE 2022 / Code 184790 <https://doi.org/10.1109/FIE56618.2022.9962383> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Sustainable machine-to-everything infrastructure management: blockchain-based impact indexing for distributed collaboration systems

Chornoval, Olena; Norta, Alexander Proceedings of the IEEE/IFIP Network Operations and Management Symposium 2022: Network and Service Management in the Era of Cloudification, Softwarization and Artificial Intelligence, NOMS 2022 2022 / Code 179994 <https://doi.org/10.1109/NOMS54207.2022.9789760>

Süvatehnoloogiate alternatiivsed arengutrajektoovid ja nende tähendus Eestile : lõpparuanne

Koppel, Kaupo; Kuusik, Alar; Arrak, Kadri; **Raik, Jaan; Niidu, Allan**; Kõks, Kerttu-Liis; **Lahtvee, Petri-Jaan** 2023
<https://media.voog.com/0000/0037/5345/files>

A symbiosis between population based incremental learning and LP-relaxation based parallel genetic algorithm for solving integer linear programming models

Fallah, Mohammad K.; Fazlali, Mahmood; **Daneshtalab, Masoud** Computing 2023 / p. 1121-1139 <https://doi.org/10.1007/s00607-021-01004-x>

Synthesising schedules to improve QoS of best-effort traffic in TSN networks

Houtan, Bahar; Ashjaei, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael; Mubeen, Saad RTNS'2021 : 29th International Conference on Real-Time Networks and Systems 2021 / p. 68-77 <https://doi.org/10.1145/3453417.3453423>

A synthetic, hierarchical approach for modelling and managing complex systems' quality and reliability = Sünteetiline, hierarhiline lähenemine keerukate süsteemide kvaliteedi ja töökindluse modelleerimiseks ja haldamiseks

Balakrishnan, Aneesh 2022 <https://doi.org/10.23658/taltech.11/2022> <https://digikogu.taltech.ee/et/Item/a594d3ec-0e6b-4a78-819a-fe1f47992612>

A systematic literature review on hardware reliability assessment methods for deep neural networks

Ahmadilivani, Mohammad Hasan; Taheri, Mahdi; Raik, Jaan; Daneshtalab, Masoud; Jenihhin, Maksim ACM Computing Surveys 2024 / art. 141, 39 p. : ill <https://doi.org/10.1145/3638242> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A systematic review of cutting-edge radar technologies : applications for unmanned ground vehicles (UGVs)

Ersü, Can; Petlenkov, Eduard; Janson, Karl Sensors 2024 / art. 7807 <https://doi.org/10.3390/s24237807> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Systematic review of fault tolerant techniques in underwater sensor networks

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan Sensors 2021 / art. 3264 <https://doi.org/10.3390/s21093264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A systematic study of lattice-based NIST PQC algorithms : from reference implementations to hardware accelerators

Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento arXiv.org 2020 / 36 p. : ill

Systematic unsupervised recycled field-programmable gate array detection

Isaka, Yuya; Shintani, Michihiro; **Ahmed, Foisal**; Inoue, Michiko IEEE transactions on device and materials reliability 2022 / 10 p. : ill <https://doi.org/10.1109/TDMR.2022.3164788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Zero-memory-overhead clipping-based fault tolerance for LSTM deep neural networks

Parchekani, Bahram; Nazari, Samira; **Ahmadilivani, Mohammad Hasan; Azarpeyvand, Ali; Raik, Jaan; Ghasempouri, Tara; Daneshtalab, Masoud** 37th IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems, Harwell, Oxfordshire, Didcot, UK, October 8th - 10th, 2024 2024 / 4 p. : ill <https://doi.org/10.1109/DFT63277.2024.10753533> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Zur Bedeutung bioinspirierter Messtechnik in der Ethohydraulik

Bensing, Katharina; Lehmann, Boris; **Tuhtan, Jeffrey Andrew; Toming, Gert** Wasserwirtschaft 2024 / p. 26-33 <https://doi.org/10.1007/s35147-024-2412-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tallinna Tehnikaülikooli allveerobot hõlbustab kalakasvatajate tööd [Võrguväljaanne]

Kruusmaa, Maarja novaator.err.ee 2020 / fot [Tallinna Tehnikaülikooli allveerobot hõlbustab kalakasvatajate tööd](#)

Tallinna tehnikaülikooli uus nägu

Oorn, Arvo; Jervan, Gert; Listra, Enn; Kanger, Tõnis Sirp 2017 / lk. 33-35 : portr <http://www.sirp.ee/s1-artiklid/c21-teadus/tallinna-tehnikaülikooli-uus-nagu/>

TalTech hakkab tegema koostööd juhtiva tehnoloogiaettevõttega

digi.geenius.ee 2024 [TalTech hakkab tegema koostööd juhtiva tehnoloogiaettevõttega](#)

TalTech создает роботов для обслуживания канализационных сетей

rus.postimees.ee 2024 [TalTech создает роботов для обслуживания канализационных сетей](#) <https://rus.err.ee/1609441499/taltech-razrabotaet-robotov-dlja-kanalizacionnoj-seti>

TalTechDigital sai diginõukoja

Aaviksoo, Jaak; Gil, Gerlin; Helm, Marek; Jervan, Gert; Krimmer, Robert Johannes; Lackman, Seth; Otto, Tauno; Saar, Kirke; Sulling, Anne; Tammet, Tanel Mente et Manu 2017 / lk. 26-30 http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2830872*est

TalTechi aasta vilistlane, Testlio asutaja Kristel Kruustük: hirmutavad hetked suunavad õigele rajale
digi.geenius.ee 2023 [TalTechi aasta vilistlane, Testlio asutaja Kristel Kruustük: hirmutavad hetked suunavad õigele rajale](#)

TalTechi IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis
mu.ee 2024 [TalTechi IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis](#) IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis

TalTechi professor Eduard Petlenkov: kõige puhtam on energia, mida ei pea tootma
Petlenkov, Eduard; Küla, Janar; Täkker, Siim ari.geenius.ee 2023 [TalTechi professor Eduard Petlenkov: kõige puhtam on energia, mida ei pea tootma](#)

TalTechi põdrajalgsel roboti uudis pälvis maailmas tähelepanu
Pärm, Rein postimees.ee 2025 [TalTechi põdrajalgsel roboti uudis pälvis maailmas tähelepanu](#)

TalTechi uus magistrikava avab lõpetajatele ukse looma uut nutikat maailma tarkadest majadest rohepöördeni
arileht.delfi.ee 2023 [TalTechi uus magistrikava avab lõpetajatele ukse looma uut nutikat maailma tarkadest majadest rohepöördeni](#)

TAS : Ternarized Neural Architecture Search for Resource-Constrained Edge Devices
Loni, Mohammad; Mousavi, Hamid; Riazati, Mohammad; **Daneshtalab, Masoud**; Sjödin, Mikael 2022 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2022 / p. 1115-1118 <https://doi.org/10.23919/DATE54114.2022.9774615>

Teaching digital system test
Oyeniran, Adeboye Stephen; **Ubar, Raimund-Johannes**; **Kruus, Margus** The 27th EAAEIE Annual Conference : June 7-9, 2017, Grenoble 2017 / [6] p

Teaching rapid application development skills for digitalisation challenges
Robal, Tarmo; **Reinsalu, Uljana**; **Leoste, Janika**; **Jürimägi, Lembit**; **Heinsar, Risto** Digital Business and Intelligent Systems : 16th International Baltic Conference, Baltic DB&IS 2024, Vilnius, Lithuania, June 30 – July 3, 2024, Proceedings 2024 / p. 177-192 : ill https://doi.org/10.1007/978-3-031-63543-4_12 Conference proceedings at Scopus Article at Scopus

Teadlane arutleb : missugused on moodsa kübersõja eetilised aspektid ja kas me suudame ennast kaitsta?
Leier, Mairo digi.geenius.ee 2024 [Teadlane arutleb : missugused on moodsa kübersõja eetilised aspektid ja kas me suudame ennast kaitsta?](#)

Teadlane vastab : kas robotid võivad muutuda inimestele ohtlikeks? [Võrguväljaanne]
Kruusmaa, Maarja forte.delfi.ee 2020 / video [Teadlane vastab: kas robotid võivad muutuda inimestele ohtlikeks?](#)

Teadlane vastab : kas robotid võtavad tulevikus meie töö ära? [Võrguväljaanne]
Kruusmaa, Maarja Eesti Teaduste Akadeemia : Youtube kanal 2020 / video [Teadlane vastab: kas robotid võtavad tulevikus meie töö ära?](#)

Teadlase kuvand ja usaldusväärsus
Kruusmaa, Maarja Teadus ja ühiskond 2018 / lk. 91-96 : fot

Teaduses ja äris on samad põhimõtted
Jervan, Gert Äripäev 2019 / lk. 12

Teaduskeel on ühendaja - intervjuu Maarja Kruusmaaga
Kruusmaa, Maarja Eesti Teaduste Akadeemia sõnas ja pildis 2018 2019 / lk. 48-53 : fot

Teaduspõhisus eesriide taga
Ubar, Raimund-Johannes Teadus ja ühiskond 2018 / lk. 9-27 : ill., fot

Techniques for robust routing, communication and computation in multiprocessor systems = Robustse marsruutimise, side ja arvutuse tehnikad mitmeprotsessorilistes süsteemides
Janson, Karl 2021 https://www.ester.ee/record=b5396084*est <https://digikogu.taltech.ee/et/Item/c9091d5c-dcd8-4b21-95a7-84ead85241e6> <https://doi.org/10.23658/taltech.3/2021>

Tehisintellekt – millest kogu see kära?
Jervan, Gert digi.geenius.ee 2023 [Tehisintellekt – millest kogu see kära?](#)

Tehisintellekt rohepöörde eesmärkide teenistuses
Petlenkov, Eduard; **Belikov, Juri** RUP. Finants- ja õigusajakiri 2023 / lk. 9-13 : ill https://www.ester.ee/record=b5550879*est

Tehisintellektide pealetung: kas inimkond peaks kartma või rõõmustama?
Einama, Kaido Postimees 2023 / Lk. 11 <https://dea.digar.ee/article/ak/2023/02/11/7.1>

Tere, tenuur!

Raik, Jaan Mente et Manu 2017 / lk. 4-5 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_05_2017/mobile/index.html
https://artiklid.elnet.ee/record=b2826986*est

"Tervis ruudus", ehk, Tippkeskuse CEBE lugu

Ubar, Raimund-Johannes Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 200-215 : ill., fot
https://www.ester.ee/record=b5208765*est

The EcoPeak4Fish Project : an integrated approach to support self-sustaining fish populations downstream hydropower plants

Boavida, Isabel; Santos, Jose Maria; Costa, Maria Joao; Leite, Renan; Portela, Maria Manuela; Godinho, Francisco; Leitao, Pedro; Mota, Rui; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N. Proceedings 39th IAHR World Congress 2022 / p. 1434-1438
<https://doi.org/10.3850/IAHR-39WC2521711920221160>

The optimization, design and performance of the FBCM23 ASIC for the upgraded CMS beam monitoring system

Kaplon, Jan; Wegrzyn, Grzegorz; **Shibin, Konstantin**; Barendregt, Marnix Journal of instrumentation 2024 / art. C02026, 6 p. : ill
<https://doi.org/10.1088/1748-0221/19/02/C02026> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#)
[Article at WOS](#)

The RETERO Project : 3R motivated risk assessment methods for downstream fish passage through hydraulic structures

Hoerner, Stefan; Abbaszadeh, Shokoofeh; Busch, Andre; Kopecki, Ianina; Leidhold, Roberto; Müller, Nadine; Powalla, Dennis; Rössger, Tom; Roth, Marcio Salgueiro; Schneider, Matthias; Stamm, Jürgen; Thevenin, Dominique; **Toming, Gert**; **Tuhtan, Jeffrey Andrew**; Wagner, Falko; Warth, Peter 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-5 : ill https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192646_12566.pdf

The validation of graph model-based, gate level low-dimensional feature data for machine learning applications

Balakrishnan, Aneesh; Lange, Thomas; Glorieux, Maximilien; Alexandrescu, Dan; **Jenihhin, Maksim** 2019 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC), 29-30 October 2019, Helsinki, Finland : proceedings in IEEE Xplore 2019 / 7 p <https://doi.org/10.1109/NORCHIP.2019.8906974>

A theoretical investigation on consideration of initial conditions in fractional-order transfer function modeling

Alagoz, Baris Baykant; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Yeroglu, Celaledin 2017 40th International Conference on Telecommunications and Signal Processing TSP : July 5-7, 2017, Barcelona, Spain 2017 / p. 710-713 : ill
<https://doi.org/10.1109/TSP.2017.8076080>

A theory of secure and efficient implementation of electronic money

Buldas, Ahto; **Draheim, Dirk**; Saarepera, Märt SN Computer Science 2023 / art. 861, 25 p. : ill <https://doi.org/10.1007/s42979-023-02232-y> [Journal metrics at Scopus](#) [Article at Scopus](#)

This fish does not exist : fish species dataset augmentation using stable diffusion

Dubrovinskaya, Elizaveta; **Tuhtan, Jeffrey Andrew** OCEANS 2023 - Limerick 2023 / 6 p.
<https://doi.org/10.1109/OCEANSLimerick52467.2023.10244720>

3D CFD analysis of pressure, boundary layer and shear stresses on a gudgeon (Gobio gobio)

Khan, Ali Hassan; Hoerner, Stefan; **Toming, Gert**; **Kruusmaa, Maarja**; **Tuhtan, Jeffrey A.** Journal of ecohydraulics 2024 / 15 p
<https://doi.org/10.1080/24705357.2024.2426809> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A 3-D crossbar architecture for both pipeline and parallel computations

Aljafar, Muayad J.; Acken, John M. IEEE Transactions on Circuits and Systems I : regular papers 2021 / p. 4456-4469
<https://doi.org/10.1109/TCSI.2021.3108564> https://pdxscholar.library.pdx.edu/cgi/viewcontent.cgi?article=1680&context=ece_fac

3D modelling of non-uniform and turbulent flow in vertical slot fishways

Fuentes-Pérez, Juan Francisco; Silva, A.T.; **Tuhtan, Jeffrey Andrew**; Garcia-Vega, Ana; Carbonell Baeza, Ruth; Musall, Mark; **Kruusmaa, Maarja** Environmental modelling & software 2018 / p. 156-169 : ill <https://doi.org/10.1016/j.envsoft.2017.09.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

3DLaneNAS : neural architecture search for accurate and light-weight 3D lane detection

Zoljodi, Ali; Loni, Mohammad; Abadijoui, Sadegh; Alibeigi, Mina; **Daneshtalab, Masoud** Artificial Neural Networks and Machine Learning - ICANN 2022 : proceedings. Part I 2022 / p. 404-415 https://doi.org/10.1007/978-3-031-15919-0_34 [Conference Proceedings at scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Time-domain identification of one noninteger order plus time delay models from step response measurements

Alagoz, Baris Baykant; **Tepljakov, Aleksei**; Ates, Abdullah; **Petlenkov, Eduard**; Yeroglu, Celaledin International journal of modeling, simulation, and scientific computing 2019 / art. 1941011, 22 p. : ill <https://doi.org/10.1142/S1793962319410113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Time-Sensitive Networking in automotive embedded systems : state of the art and research opportunities

Ashjaei, Mohammad; Bello, Lucia Lo; **Daneshtalab, Masoud**; Patti, Gaetano; Saponara, Sergio; Mubeen, Saad Journal of Systems Architecture : the EUROMICRO Journal 2021 <https://doi.org/10.1016/j.sysarc.2021.102137>

Timing-critical path analysis with structurally synthesized BDDs

Ubar, Raimund-Johannes; Jürimägi, Lembit; Jenihhin, Maksim; Raik, Jaan; Olugbenga, Niyi-Leigh; Viies, Vladimir 2018 7th Mediterranean Conference on Embedded Computing (MECO) 2018 / 6 p. : ill <https://doi.org/10.1109/MECO.2018.8406051>

A tool for design-time usability evaluation of web user interfaces

Marenkov, Jevgeni; Robal, Tarmo; Kalja, Ahto Advances in databases and information systems 21st European Conference, ADBIS 2017 Nicosia, Cyprus, September 24-27, 2017 : proceedings 2017 / p. 394-407 : ill https://doi.org/10.1007/978-3-319-66917-5_26 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Topology and spatial-pressure-distribution reconstruction of an englacial channel

Piho, Laura; Alexander, Andreas; **Kruusmaa, Maarja** The cryosphere 2022 / p. 3669-3683 <https://doi.org/10.5194/tc-16-3669-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A touch-free service button for Smart Elevator Operation with dynamic QR-code generation

Reinsalu, Uljana; Robal, Tarmo 2023 12th Mediterranean Conference on Embedded Computing (MECO) : 6-10 June 2023, Budva, Montenegro : proceedings 2023 / 4 p. : ill <https://doi.org/10.1109/MECO58584.2023.10155102>

Towards a machine learning-based framework for DDOS attack detection in software-defined IoT (SD-IoT) networks

Bhayo, Jalal; Shah, Syed Attique; Hameed, Sufian; Ahmed, Awais; Nasir, Jamal; **Draheim, Dirk** Engineering Applications of Artificial Intelligence 2023 / art. 106432 <https://doi.org/10.1016/j.engappai.2023.106432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards a reliable and validated toolbox to replace live fish tests for the assessment of injury and mortality during downstream passage

Hoerner, Stefan; **Kösters, Wolf Irling**; Abbaszadeh, Shokoofeh; Wagner, Falko; **Tuhtan, Jeffrey Andrew** Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / p. 1 <https://hal.science/hal-04642604>

Towards a synesthesia laboratory : real-time localization and Visualization of a sound source for virtual reality applications

Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei; Draheim, Dirk; Petlenkov, Eduard; Vassiljeva, Kristina Journal of communications software and systems 2018 / p. 112-120 : ill <https://doi.org/10.24138/jcomss.v14i1.410> [Journal metrics at Scopus](#) [Article at Scopus](#)

Towards artificial intelligence driven immersive environments in virtual reality for industrial applications

Alsaleh, Saleh Ragheb Saleh; Tepljakov, Aleksei; Tamre, Mart; Petlenkov, Eduard 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 340-345 <https://doi.org/10.1109/TSP52935.2021.9522676>

Towards assessment of behavioral patterns in a virtual reality environment

Köse, Ahmet; Tepljakov, Aleksei; Abel, Mihkel; Petlenkov, Eduard Augmented Reality, Virtual Reality, and Computer Graphics : 6th International Conference, AVR 2019 : Santa Maria al Bagno, Italy, June 24-27, 2019 : Proceedings. Part I 2019 / p. 237-253 : ill https://doi.org/10.1007/978-3-030-25965-5_18 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Towards assisting interactive reality : interactive reality for education, data analysis and industry

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard Augmented Reality, Virtual Reality, and Computer Graphics : 5th International Conference : AVR 2018, Otranto, Italy, June 24-27, 2018 : proceedings, Part I 2018 / p. 569-588 https://doi.org/10.1007/978-3-319-95282-6_41 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Towards dynamic modeling in immersive environments with assessment of user experiences = Džnaamilised mudelid virtuaalsetes keskkondades ja kasutajakogemuste hindamine

Köse, Ahmet 2020 https://www.ester.ee/record=b5378018*est <https://digikogu.taltech.ee/et/Item/4f5fbdbd-21c5-4c6a-94ee-fa8374b5ce3a>

Towards formal verification of cache access-based side-channel attacks

Niazmand, Behrad; Reinbrecht, Cezar; Raik, Jaan; Jervan, Gert; Sepulveda, Johanna Testmethoden und Zuverlässigkeit von Schaltungen und Systemen, TUZ 2019 2019 / 2 p. : tab <http://www.informatik.uni-bremen.de/tuz/2019>

Towards industrialization of FOPID controllers : a survey on milestones of fractional-order control and pathways for future developments

Tepljakov, Aleksei; Alagoz, Baris Baykant; Yeroglu, Celalettin; Gonzalez, Emmanuel A.; Hosseinia Kani, Seyed Hassan; **Petlenkov, Eduard**; Ates, Abdullah; Cech, Martin IEEE Access 2021 / p. 21016-21042 <https://doi.org/10.1109/ACCESS.2021.3055117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards multidimensional verification : where functional meets non-functional

Jenihhin, Maksim; Lai, Xinhui; Ghasempouri, Tara; Raik, Jaan 2018 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC) : 30-31 October 2018, Tallinn, Estonia : proceedings in IEEE Xplore 2018 / 7 p. : ill <https://doi.org/10.1109/NORCHIP.2018.8573495>

Towards personalized elevator travel with smart elevator system

Robal, Tarmo; Reinsalu, Uljana; Leier, Mairo Baltic journal of modern computing 2020 / p. 675-697

<https://doi.org/10.22364/bjmc.2020.8.4.12> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Towards understanding fish behavior near an angled rack : an approach for fish tracing using open-source software

Kopecki, Ianina; Schneider, Matthias; Bensing, Katharina; Lehmann, Boris; Becker, Andreas; Ortlepp, Johannes; **Tuhtan, Jeffrey Andrew** 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-2

https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009195954_71750.docx

TrajectoryNAS: a neural architecture search for trajectory prediction

Sharifi, Ali Asghar; Zoljodi, Ali; **Daneshtalab, Masoud** Sensors 2024 / 15, p. : ill <https://doi.org/10.3390/s24175696> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transferral skills in applied artificial intelligence : the case of financial sector

Porjazoska Kujundziski, Aleksandra; Domazet, Ervin; Kamberaj, Hiqmet; Rahmani, Damir; Feta, Amra; **Petlenkov, Eduard; Vassiljeva, Kristina**; Štajduhar, Ivan; Hagen, Tobias MIC2023 . Management International Conference. Toward Green, Inclusive, and Digital Growth, Trieste, Italy • 7–10 June 2023. Abstracts of the Joint International Conference 2023 / p. 24 <https://doi.org/10.26493/978-961-293-234-3>

Triple fixed-point MAC unit for deep learning

Kerner, Madis; Tammemäe, Kalle; Raik, Jaan; Hollstein, Thomas Proceedings of the 2021 Design, Automation & Test in Europe (DATE 2021), 1-5 February 2021 : Virtual Conference 2021 / p. 1404-1407 <https://doi.org/10.23919/DAT51398.2021.9474020>

True path tracing in structurally synthesized BDDs for testability analysis of digital circuits

Ubar, Raimund-Johannes; Jürimägi, Lembit; Oyeniran, Adeboye Stephen; Jenihhin, Maksim Euromicro Conference on Digital System Design : DSD 2019 : 28 - 30 August 2019 Kallithea, Chalkidiki, Greece : proceedings 2019 / p. 492-499 : ill <https://doi.org/10.1109/DSD.2019.00077>

TTÜ arvutitehnika instituut sai 50-aastaseks

Kruus, Margus Mente et Manu 2017 / lk. 38-39 : fot http://www.ttu.ee/public/m/mente-et-manu/MM_01_2017/index.html
https://artiklid.elnet.ee/record=b2811478*est

TTÜ professor: võidujooks parema tehisintellekti nimel on varjutanud eetika

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [TTÜ professor: võidujooks parema tehisintellekti nimel on varjutanud eetika](#)

TTÜ teadlased katsetasid Muhu rannikuvees maailmas ainulaadseid rõhuandureid [Võrguväljaanne]

Muld, Margus novaator.err.ee 2020 / fot [TTÜ teadlased katsetasid Muhu rannikuvees maailmas ainulaadseid rõhuandureid](#)

Tuhat eurot palgale juurde! Just nii palju rohkem teenid, kui astud selle ühe sammu!

Jervan, Gert arileht.delfi.ee 2024 [Tuhat eurot palgale juurde! Just nii palju rohkem teenid, kui astud selle ühe sammu!](#)

Tunned huvi IT-erialade vastu, kuid pole valikutes veel kindel? Tee väike test!

delfi.ee 2024 [Tunned huvi IT-erialade vastu, kuid pole valikutes veel kindel? Tee väike test!](#)

A tutorial on design obfuscation : from transistors to systems

Pagliarini, Samuel Nascimento 2021 IEEE 22nd Latin American Test Symposium (LATS), Punta del Este, Uruguay, 27-29 October 2021 2021 / 3 p. : ill <https://doi.org/10.1109/LATS53581.2021.9651741>

A tutorial on dynamics and control of power systems with distributed and renewable energy sources based on the DQ0 transformation

Levron, Yoash; **Belikov, Juri**; Baimel, Dmitry Applied sciences 2018 / art. 1661, 48 p. : ill <https://doi.org/10.3390/app8091661> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

2018 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC) : 30-31 October 2018, Tallinn, Estonia : proceedings in IEEE Xplore [Online resource]

2018 <https://ieeexplore.ieee.org/xpl/conhome/8552599/proceeding>

2019 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC), 29-30 October 2019, Helsinki, Finland : proceedings in IEEE Xplore

2019

2023 IEEE Nordic Circuits and Systems Conference (NORCAS) : 31 October-November 1, 2023 Aalborg, Denmark : proceedings in IEEE Xplore

2023 <https://researchr.org/publication/norcas-2023>

2D estimation of velocity relative to water and tidal currents based on differential pressure for autonomous underwater vehicles

Meurer, Christian; Fuentes-Perez, Juan Francisco; Schwarzwald, Kordula; Ludvigsen, Martin; Sorensen, Asgeir Johan; **Kruusmaa, Maarja** IEEE robotics and automation letters 2020 / p. 3444–3451 <https://doi.org/10.1109/LRA.2020.2976318> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A two-stream context-aware ConvNet for pavement distress detection

Lõuk, Roland; Tepljakov, Aleksei; Riid, Andri 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 / p. 270-273 : ill <https://doi.org/10.1109/TSP49548.2020.9163538>

Tõe haprusest teaduse ja ühiskonna dialoogis

Ubar, Raimund-Johannes Postimees 2017 / AK : arvamus, kultuur, lk. 7 <https://teadus.postimees.ee/3997875/raimund-ubar-toe-haprusest-teaduse-ja-uhiskonna-dialoogis>

Tõe haprusest teaduse ja ühiskonna dialoogis

Ubar, Raimund-Johannes Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2017 2018 / lk. 51-53 https://www.ester.ee/record=b1218094*est

Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti

digi.geenius.ee 2024 [Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti](#)

Töökindla arvutusrästvara keskuse juht Maksim Jenihhin

Jenihhin, Maksim forte.delfi.ee 2024 [Töökindla arvutusrästvara keskuse juht Maksim Jenihhin](#)

Tööstusdoktorantuur projektis RESCUE

Jenihhin, Maksim Mente et Manu 2017 / lk. 21 http://www.ester.ee/record=b1242496*est

Türgist Eestisse üksarviku ehitama. „Tahan Eestile midagi tagasi anda“

Sildmets, Kadri Eesti Päevaleht 2023 <https://dea.digar.ee/article/lp/2023/07/28/15.1> [Türgist Eestisse üksarviku ehitama. „Tahan Eestile midagi tagasi anda“](#)

Uncovering the symmetry of the induced ferroelectric phase transformation in polycrystalline barium titanate

Lemos da Silva, Lucas; Lee, Kai-Yang; Petrick, Simon; **Chaves Arroyave, Cesar Giovanni** Journal of applied physics 2021 / art. 234101 <https://doi.org/10.1063/5.0068703> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Understanding fault-tolerance vulnerabilities in advanced SoC FPGAs for critical applications

Cherezova, Natalia; Shibin, Konstantin; Jenihhin, Maksim; Jutman, Artur Microelectronics reliability 2023 / art. 115010, 10 p. : ill <https://doi.org/10.1016/j.microrel.2023.115010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Understanding MPSoCs : exploiting memory microarchitectural vulnerabilities of high performance NoC-based MPSoCs

Sepulveda, Johanna; **Azad, Siavoosh Payandeh; Niazmand, Behrad; Jervan, Gert** SAMOS '18 : Proceedings of the 18th International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation, Pythagorion, Greece, July 15-19, 2018 / p. 162-166 <https://doi.org/10.1145/3229631.3239367> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Understanding multidimensional verification : where functional meets non-functional

Lai, Xinhui; Balakrishnan, Aneesh; Lange, Thomas; **Jenihhin, Maksim; Ghasempouri, Tara; Raik, Jaan;** Alexandrescu, Dan Microprocessors and microsystems 2019 / art. 102867, 13 p. : ill <https://doi.org/10.1016/j.micpro.2019.102867> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater bioinspired sensing: New opportunities to improve environmental monitoring

Tuhtan, Jeffrey Andrew; Nag, Saptarshi; Kruusmaa, Maarja IEEE instrumentation & measurement magazine 2020 / p. 30-36 <https://doi.org/10.1109/MIM.2020.9062685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater confined space mapping by resource-constrained autonomous vehicle

Preston, Victoria; Salumäe, Taavi; Kruusmaa, Maarja Journal of field robotics 2018 / p. 1122-1148 : ill <https://doi.org/10.1002/rob.21806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater map-based localization using flow features

Muhammad, Naveed; Toming, Gert; Tuhtan, Jeffrey A.; Musall, Mark; **Kruusmaa, Maarja** Autonomous robots 2017 / p. 417-436 : ill <https://doi.org/10.1007/s10514-016-9558-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater robotics is full of opportunities. Estonia has one of Europe's top 15 research teams

Kruusmaa, Maarja Estonian Centre of Excellence in ICT Research 2021 / p. 48-52 : ill <http://www.digar.ee/id/nlib-digar:634779>
https://www.ester.ee/record=b5456158*est

Universal mitigation of NBTI-induced aging by design randomization

Jenihhin, Maksim; Kamkin, Alexander; Navabi, Zainalabedin; Sadeghi-Kohan, Somayeh Proceedings of 2016 IEEE East-West Design & Test Symposium (EWDTS) : Yerevan, Armenia, October 14-17, 2016 2017 / [5] p. : ill <http://dx.doi.org/10.1109/EWDTS.2016.7807635>

Unsupervised recycled FPGA detection using symmetry analysis

Tarique, Tanvir Ahmad; **Ahmed, Foisal**; **Jenihhin, Maksim**; Ali, Liakot 12th International Conference on Electrical and Computer Engineering : ICECE 2022 2022 / p. 437-440 <https://doi.org/10.1109/ICECE57408.2022.10088856>

Upgrading QoS in NoC : efficient routing for mixed-criticality applications and power analysis

Avramenko, Serhiy; **Azad, Siavoosh Payandeh**; Violante, Massimo; Niazmand, Behrad; **Raik, Jaan**; **Jenihhin, Maksim** Proceedings of the 2018 IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC) : October 8-10, 2018, Verona, Italy 2018 / p. 207-212 : ill <https://doi.org/10.1109/VLSI-SoC.2018.8644866>

Use of formal methods for verification and optimization of fault lists in the scope of ISO26262

Augusto da Silva, Felipe; **Bagbaba, Ahmet Cagri**; Hamdioui, Said; Sauer, Christian 2018 Design and Verification Conference (DVCON) Europe : [proceedings] 2018 / 6 p. : ill <https://repository.tudelft.nl/islandora/object/uuid%3Adbd7f22d-0324-45f5-9180-8fe3fc95a9ce>

Uses and misuses of quasi-static time-varying phasor models in power systems

Belikov, Juri; Levron, Yoash IEEE transactions on power delivery 2018 / p. 3263-3266 <https://doi.org/10.1109/TPWRD.2018.2852950>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uses of the digital twins concept for energy services, intelligent recommendation systems, and demand side management : a review

Onile, Abiodun Emmanuel; Machlev, Ram; **Petlenkov, Eduard**; Levron, Yoash; **Belikov, Juri** Energy reports 2021 / p. 997-1015
<https://doi.org/10.1016/j.egy.2021.01.090> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using spectrograms from underwater total pressure sensors to detect passing vessels in a coastal environment

Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew Journal of atmospheric and oceanic technology 2020 / p. 1353-1363 : ill <https://doi.org/10.1175/JTECH-D-19-0192.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using STLs for effective in-field test of GPUs

Rodriguez Condia, Josie E.; Da Silva, Felipe Augusto; **Bagbaba, Ahmet Cagri**; Guerrero-Balaguera, Juan-David; Hamdioui, Said; Sauer, Christian; Reorda, Matteo Sonza IEEE Design and Test 2023 / p. 109-117 <https://doi.org/10.1109/MDAT.2022.3188573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Utilizing layout effects for analog logic locking

Aljafar, Muayad J.; Azais, Florence; Flottes, Marie-Lise; Pagliarini, Samuel Journal of Cryptographic Engineering 2024 / p. 311-324
<https://doi.org/10.1007/s13389-024-00350-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uudne turvaline kiibitehnoloogia

Raik, Jaan Mente et Manu 2021 / lk. 32-33 : fot [Mente et Manu 2/2021](#)

Uudset kalakaamerat testitakse Purtse jões

Kriis, Külli Põhjarannik 2025 / lk. 7 <https://dea.digar.ee/article/pohjarannik/2025/05/29/13.1> <https://pohjarannik.postimees.ee/8257784/uudset-kalakaamerat-testitakse-purtse-joes>

Uuring: inimesed eelistavad liftis seista alati sama koha peal

Harrik, Airika novaator.err.ee 2025 [Uuring: inimesed eelistavad liftis seista alati sama koha peal](#) [Uuring: inimesed eelistavad liftis seista alati sama koha peal](#) https://doi.org/10.1007/978-3-031-75887-4_10

Uus magistrikava avab lõpetajatele ukse nutikasse maailma tarkadest majadest rohepöördeni

postimees.ee 2023 [Uus magistrikava avab lõpetajatele ukse nutikasse maailma tarkadest majadest rohepöördeni](#) [TalTech avab elektroonikainseneridele suunatud magistrikava](#)

Wafer-level die re-test success prediction using machine learning

Selg, Hardi; **Jenihhin, Maksim**; Ellervee, Peeter 21st IEEE Latin-American Test Symposium (LATS) 2020 : proceedings 2020 / 5 p
<https://doi.org/10.1109/LATS49555.2020.9093672>

Valgetähe saanud Gert Jervan : tehisaru muudab õpioskused üha tähtsamaks

Jervan, Gert novaator.err.ee 2025 [Valgetähe saanud Gert Jervan : tehisaru muudab õpioskused üha tähtsamaks](#)

Walking in Mud : Modeling, Control, and Experiments of Quadruped Locomotion

Godon, Simon Pierre; Prados, Carlos; Chemori, Ahmed; **Ristolainen, Asko**; **Kruusmaa, Maarja** IEEE/ASME Transactions on Mechatronics 2025 / 12 p. : ill <https://doi.org/10.1109/TMECH.2025.3560588>

Ways for board and system test to benefit from FPGA embedded instrumentation

Ehrenberg, Heiko; **Odintsov, Sergei**; **Devadze, Sergei**; **Jutman, Artur**; **Aleksejev, Igor**; Wenzel, Thomas 2019 IEEE AUTOTESTCON 2019 / 10 p : ill <https://doi.org/10.1109/AUTOTESTCON43700.2019.8961057>

Wearable technologies for monitoring aquatic exercises : a systematic review

Monoli, Cecilia; **Tuhtan, Jeffrey Andrew**; Piccinini, Luigi; Galli, Manuela Clinical Rehabilitation 2023 / p. 791-807 <https://doi.org/10.1177/02692155221141039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A web-based economic decision tool for abatement investments for shipping industry

Bakkar, Yassine; **Robal, Tarmo**; **Prause, Gunnar Klaus** Reliability and statistics in transportation and communication : Selected Papers from the 19th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'19, 16-19 October 2019, Riga, Latvia 2020 / p. 363–373 https://doi.org/10.1007/978-3-030-44610-9_36 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Webcam-based attention tracking in online learning: a feasibility study

Robal, Tarmo; Zhao, Yue; Lofi, Christoph; Hauff, Claudia IUI '18 : Proceedings of the 2018 Conference on Intelligent User Interface, Tokyo, Japan, March 07-11, 2018 2018 / p. 189-197 : ill <https://doi.org/10.1145/3172944.3172987>

Verifying cache architecture vulnerabilities using a formal security verification flow

Ghasempouri, Tara; **Raik, Jaan**; **Paul, Kolin**; Reinbrecht, Cezar; Hamdioui, Said; Taouil, Mottaqiallah Microelectronics reliability 2021 / art. 114085 <https://doi.org/10.1016/j.microrel.2021.114085> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A versatile and flexible multiplier generator for Large integer polynomials

Imran, Malik; **Abideen, Zain Ul**; **Pagliarini, Samuel Nascimento** Journal of hardware and systems security 2023 / p. 55–71 <https://doi.org/10.1007/s41635-023-00134-2>

Whisker-based tactile navigation algorithm for underground robots

Kossas, Tanel; **Remmas, Mohamed Walid**; **Gkliva, Roza**; **Ristolainen, Asko**; **Kruusmaa, Maarja** 2024 IEEE International Conference on Robotics and Automation (ICRA) 2024 / p. 13164-13170 <https://doi.org/10.1109/ICRA57147.2024.10610762> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

„Viisin talle isegi tulekindla teki, aga...” Tulesurmade arv kasvab ehmatava kiirusega

Michelson, Tarmo maaleht.delfi.ee 2024 [„Viisin talle isegi tulekindla teki, aga...” Tulesurmade arv kasvab ehmatava kiirusega](#)

Villemonte's approach : a general method for modeling uniform and non-uniform performance in stepped fishways

Fuentes-Pérez, Juan Francisco; Garcia-Vega, Ana; Sanz-Ronda, Francisco Javier; Martinez de Azagra Paredes, Andres Knowledge and management of aquatic ecosystems 2017 / art. 23, p. 1-11 : ill <https://doi.org/10.1051/kmae/2017013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Villiko Nurmoja selgitab, miks Eesti vajab AI-d ja relvi: oleme väikeriik, kelle hoovis “õunavargil” ei käida

geenius.ee 2024 [Villiko Nurmoja selgitab, miks Eesti vajab AI-d ja relvi: oleme väikeriik, kelle hoovis “õunavargil” ei käida](#)

Virtuaalreaalsus võib peagi väikeettevõtetele kättesaadavamaks muutuda

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Virtuaalreaalsus võib peagi väikeettevõtetele kättesaadavamaks muutuda](#)

Virtual inertia control methods in islanded microgrids

Škiparev, Vjatšeslav; Machlev, Ram; Chowdhury, Nilanjan Roy; Levron, Yoash; **Petlenkov, Eduard**; Belikov, Juri Energies 2021 / art. 1562, 20 p. : ill <https://doi.org/10.3390/en14061562> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Virtual inertia control of isolated microgrids using an NN-based VFOPID controller

Škiparev, Vjatšeslav; **Nosrati, Komeil**; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Levron, Yoash; **Belikov, Juri**; Guerrero, Joseph M. IEEE Transactions on sustainable energy 2023 / p. 1558-1568 <https://doi.org/10.1109/TSTE.2023.3237922> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Virtual reality meets intelligence in large scale architecture

Köse, Ahmet; **Petlenkov, Eduard**; **Tepljakov, Aleksei**; **Vassiljeva, Kristina** Augmented Reality, Virtual Reality, and Computer Graphics : 4th International Conference, AVR 2017, Ugento, Italy, June 12-15, 2017 : proceedings. Part II 2017 / p. 297-309 : ill https://doi.org/10.1007/978-3-319-60928-7_26 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Visualization and analysis of three-way data using accumulated concept graphs

Ichino, Manabu; **Umbleja, Kadri**; Yaguchi, Hiroyuki AppliedMath 2024 / p. 1162 - 1180 <https://doi.org/10.3390/appliedmath4030062>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A visual-semantic approach for building content-based recommender systems

Bendouch, Mounir M.; Frasinca, Flavius; **Robal, Tarmo** Information systems 2023 / art. 102243, 12 p. : ill
<https://doi.org/10.1016/j.is.2023.102243> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Vorwort

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. VII-VIII <https://doi.org/10.1007/978-3-658-32824-5>

X-keelne õppekava - mis see on?

Kukk, Vello Õpetajate Leht 2019 / lk. 5

Искусственный интеллект в решении задач зеленого поворота

Petlenkov, Eduard; **Belikov, Juri** RUP. Финансово-правовой журнал 2023 / с. 3-7 https://www.ester.ee/record=b5550868*est

Профессор TalTech: закон об ИИ стал первым комплексным инструментом для защиты прав граждан

Jenihhin, Maksim rus.err.ee 2025 [Профессор TalTech: закон об ИИ стал первым комплексным инструментом для защиты прав граждан](#)
[autor](#)

Профессор: в ИИ я вижу перспективу развития для многих

Petlenkov, Eduard Stolitsa.ee 2023 [Профессор: в ИИ я вижу перспективу развития для многих](#)

Профессор: в ИИ я вижу перспективу развития для многих

Petlenkov, Eduard Stolitsa.ee 2023 [Профессор: в ИИ я вижу перспективу развития для многих](#)

«Сейчас время больших перемен»: профессор TalTech приоткрыл завесу тайны развития ИИ в Эстонии

Grebneva, N.; **Jenihhin, Maksim** rus.postimees.ee 2025 [«Сейчас время больших перемен»: профессор TalTech приоткрыл завесу тайны развития ИИ в Эстонии](#)

Студенты айтишники не могут найти работу. «Абсурдная ситуация»

Эстонский Экспресс 2024 / С. 22-26 https://www.ester.ee/record=b5306225*est

Школьников и студентов в Эстонии устно будут спрашивать чаще

Grebneva, N. rus.postimees.ee 2023 [Школьников и студентов в Эстонии устно будут спрашивать чаще](#)

一类集合分类问题—一类集合分类问题

Zhuang, Bo; Cui, Baotong; **Chen, Juan** Control theory & applications 2020 / p. 592-602 <https://doi.org/10.7641/CTA.2019.90061> [Journal metrics at Scopus](#) [Article at Scopus](#)