

A Q-model approach to decomposition and aggregation of specifications of real-time systems

Paluoja, Rein Proceedings of the 7th EUROMICRO Workshop on Real-Time Systems : Odense, Denmark, June 14-16, 1995 1995 / p. 213-221

Adaptive futures : scalability for real-world computing

Helander, Johannes; **Serg, Risto**; Veanes, Margus; Roy, Pritam Proceedings of 28th IEEE International Real-Time Systems Symposium : Tucson, Arizona, 3-6 December 2007 2007 / p. 105-116 : ill
<https://ieeexplore.ieee.org/document/4408296/keywords#keywords>

Agent-based templates for implementing proactive real-time systems

Mõtus, Leo; Meriste, Merik; Kelder, Tõnis; Helekivi, Jüri Proceedings of the International Conference on Computing, Communications, and Control Technologies : Texas, USA, 2004. Vol. 1 2004 / p. 199-204

Animation in Conrad: informal analysis of timing properties

Kaldma, Tarmo; **Mõtus, Leo**; **Paluoja, Rein**; **Tekko, Jaanus**; **Tommingas, Toomas** Proceedings : Sixth Euromicro Workshop on Real-Time Systems : June 15-17, 1994, Vaesteraas, Sweden 1994 / p. 220-225

Applying AI and incomplete solution principles to solve NP-hard problems in the real-time systems

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 807-811
https://www.researchgate.net/publication/242103446_Applying_AI_and_Incomplete_Solution_Principles_to_Solve_NP-hard_Problems_in_the_Real-Time_Systems

Arvutite ja reaalse maailma koosmõju uurimisest Eestis

Mõtus, Leo Teadusmõte Eestis : tehnikateadused 2002 / lk. 91-95 : ill

Automatic code generation for embedded systems from high-level models

Riid, Andri; **Preden, Jürjo-Sören**; **Pahtma, Raido**; **Serg, Risto**; **Lints, Taivo** Elektronika ir elektrotehnika = Electronics and electrical engineering 2009 / 7, p. 33-36 <https://eejournal.ktu.lt/index.php/elt/article/view/10035>

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>

Challenges for real-time systems engineering. Part 1, State of the art

Mõtus, Leo; Vingerhoeds, Robertus A.; Meriste, Merik Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 1, p. 3-17

Challenges for real-time systems engineering. Part 2, Towards time-aware technology

Mõtus, Leo; Vingerhoeds, Robertus A.; Meriste, Merik Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 1, p. 18-30

Combining multiple sound sources localization hybrid algorithm and fuzzy rule based classification for real-time speaker tracking application

Ibala, Christian; **Astapov, Sergei**; **Riid, Andri** International journal of microelectronics and computer science 2013 / p. 12-25 : ill
https://www.researchgate.net/publication/261467057_Combining_Multiple_Sound_Sources_Localization_Hybrid_Algorithm_and_Fuzzy_Rule_Based_Classification_for_Real-time_Speaker_Tracking_Application

Contention aware scheduling for NoC-based real-time systems

Tagel, Mihkel; **Ellervee, Peeter**; **Hollstein, Thomas**; **Jervan, Gert** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK viienda aastakonverentsi artiklite kogumik : 25.-26. novembril 2011, Nelijärve 2011 / p. 75-78 : ill

Contention aware scheduling for NoC-based real-time systems

Tagel, Mihkel; **Ellervee, Peeter**; **Hollstein, Thomas**; **Jervan, Gert** Norchip 2011 : 14-15 November 2011, Lund 2011 / [4] p.: ill

Controlling stormwater runoff from impermeable areas by using smart inlets

Kändler, Nils; **Annus, Ivar**; **Vassiljev, Anatoli**; **Puust, Raido**; **Kaur, Katrin** New trends in urban drainage modelling : UDM 2018 : Conference proceedings 2019 / p. 263-268 https://doi.org/10.1007/978-3-319-99867-1_44 [Conference proceedings at Scopus](#) [Article at WOS](#)

CROW2 : Internet of humans-based platform for disaster relief and emergency communication

Ben Arbia, Dhafer; **Alam, Muhammad Mahtab**; Attia, Rabah; Ben Hamida, Elyes; Kadri, Abdullah 14th IEEE Annual Consumer Communications & Networking Conference, CCNC 2017 : Las Vegas, NV, USA, January 8-11, 2017 2017 / p. 578-579 : ill
<https://doi.org/10.1109/CCNC.2017.7983174>

Decentralized real-time control platform for urban drainage systems in climate proof smart cities = Sademeveesüsteemide

detsentraliseeritud juhtimissüsteemi platvorm kliimakindlates tarkades linnades

Kändler, Nils 2021 https://www.ester.ee/record=b5434231*est <https://digikogu.taltech.ee/et/Item/f02a02b2-da6e-4341-a69c-eba8d029e433>
<https://doi.org/10.23658/taltech.32/2021>

Deep learning based audio-visual emotion recognition in a smart learning environment

Dunajeva, Olga; Pentel, Avar; Ivleva, Natalja; Juštšenko, Valeria Towards a Hybrid, Flexible and Socially Engaged Higher Education : proceedings of the 26th International Conference on Interactive Collaborative Learning (ICL2023), vol. 1 2024 / p. 420-431 https://doi.org/10.1007/978-3-031-51979-6_44 [Conference proceedings at scopus](#) [Article at Scopus](#) [Article at WOS](#)

Design methodology for fault-tolerant heterogeneous MPSoC under real-time constraints

Amin, Mohsin; Tagel, Mihkel; Jervan, Gert; Hollstein, Thomas 7th International Workshop on Reconfigurable and Communication-Centric Systems-on-Chip : July 9-11, 2012 : York, United Kingdom : proceedings 2012 / [6 p.] : ill <https://ieeexplore.ieee.org/document/6322901>

Design of Artificial Intelligence based time-critical systems - integration difficulties

Mõtus, Leo Lecture Notes / Nordic-Baltic Summer School '98 1999 / p. 25-38

Design of real-time systems using timed object modelling

Näks, Tõnu The 3rd Baltic Summer School on Information Technology and Systems Engineering, 1-5 August, 1995, Klaipeda : theses 1995 / p. 43-47

Development of realtime co-simulation platform harnessing consumer energy flexibility through an aggregator to provide grid support

Shabbir, Noman; Ahamadihangar, R; Rosin, Argo; Kilter, Jako; Martins, Joao IEEE Transactions on Consumer Electronics 2024 / p. 6641-6652 <https://doi.org/10.1109/TCE.2024.3470241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development, implementation and field trial of 5G integrated GNSS-RTK positioning in cross-border settings

Elgarhy, Osama; Rohtla, Margus; Ait, Indur; Roosipuu, Priit; Kõrbe Kaare, Kati; Sadam, Arvi; Kallaspoolik, Toomas; Alam, Muhammad Mahtab 2024 IEEE Future Networks World Forum (FNWF) 2025 / p. 791-796
<https://doi.org/10.1109/FNWF63303.2024.11028789>

DICE - an interactive approach to hardware/software co-design of heterogeneous real-time systems

Hollstein, Thomas; Becker, J.; Kirschbaum, A.; Renner, F.-M.; Glesner, M. BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 97-100

Digital self-interference cancellation: algorithmic performance analysis and software defined radio based realization

Rani, Ritu; **Le Moullec, Yannick** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277345>

Doktoritöö: liigest vihmaveest aitaks vabaneda tark veetorustik [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2021 "[Doktoritöö: liigest vihmaveest aitaks vabaneda tark veetorustik](https://digikogu.taltech.ee/et/Item/f02a02b2-da6e-4341-a69c-eba8d029e433)"
<https://digikogu.taltech.ee/et/Item/f02a02b2-da6e-4341-a69c-eba8d029e433>

DTRON : a tool for distributed model-based testing of time critical applications

Anier, Aivo; Vain, Jüri; Tsiopoulos, Leonidas Proceedings of the Estonian Academy of Sciences 2017 / p. 75-88 : ill
<https://doi.org/10.3176/proc.2017.1.08> http://www.ester.ee/record=b2355998*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic motion energy efficiency measurement of ground vehicles

Väljaots, Eero; Sell, Raivo Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 367-372 : ill

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

Köse, Ahmet; Tepļakov, 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>

Eesti taevast andurite valve all : drooniradar tuvastab, mis meie peade kohal lendab

Einama, Kaido postimees.ee 2025 <https://tehnika.postimees.ee/8272680/eesti-taevast-andurite-valve-all-drooniradar-tuvastab-mis-meie-peade-kohal-lendab>

EKI keelekool: eestikeelsed automaatsubtiitrid on jõudnud otse-eetrisse [Võrguväljaanne]

Oja, Susanna postimees.ee 2022 "[EKI keelekool: eestikeelsed automaatsubtiitrid on jõudnud otse-eetrisse](https://tehnika.postimees.ee/8272680/eesti-taevast-andurite-valve-all-drooniradar-tuvastab-mis-meie-peade-kohal-lendab)"

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>

Enhancing object modelling technique with timing analysis capabilities

Mõtus, Leo; Kinksaar, Riho; Näks, Tõnu; Pall, Martin First IEEE International Conference on Engineering Complex Computer Systems : Ft. Lauderdale, Florida, USA, November 6-10, 1995 1995 / p. 298-301 <https://ieeexplore.ieee.org/document/479347>

Experimental validation and field trials of 5G cross-border connectivity

Elgarhy, Osama Mohamed Mostafa; Kulmar, Marika; Roosipuu, Priit; Rohtla, Margus; Le Moullec, Yannick; Körbe Kaare, Kati; Sadam, Arvi; Scholliers, Johan; **Alam, Muhammad Mahtab** 2024 IEEE Future Networks World Forum (FNWF) 2024 / p. 57-62
<https://doi.org/10.1109/FNWF63303.2024.11028794>

Extended observer form for nonlinear system with disturbances : Algorithm and application

Kaparin, Vadim; Simha, Ashutosh; Chowdhury, Nilanjan Roy; **Kotta, Ülle**; Levron, Yoash; **Belikov, Juri** 2024 18th International Conference on Control, Automation, Robotics and Vision (ICARCV) 2024 <https://doi.org/10.1109/ICARCV63323.2024.10821609>

Forecasting Corona Losses on High Voltage Transmission Lines Using Machine Learning

Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako IEEE transactions on power delivery 2025 / p. 2696-2705
<https://doi.org/10.1109/TPWRD.2025.3593923>

Formal specification of concurrent time-constraint programs

Mõtus, Leo Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 267
https://www.ester.ee/record=b1052731*est

Formal timing analysis of OMT designs using LIMITS

Mõtus, Leo; Näks, Tõnu Third International Workshop on Object-Oriented Real-Time Dependable Systems, February 5-7, 1997, Newport Beach, California, USA 1997 / p. 137-144 <https://ieeexplore.ieee.org/document/609944>

FPGA-based 16-bit 20 MHz device for the inductive measurement of electrical bio-impedance

Priidel, Eiko; Pesti, Ksenija; Min, Mart; Ojarand, Jaan; Märten, Olev 2021 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2021), May 17-20, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/I2MTC50364.2021.9460073>

Frankenstack : real-time cyberattack detection and feedback system for technical cyber exercises

Pihelgas, Mauno; Kont, Markus Proceedings of the 2021 IEEE International Conference on Cyber Security and Resilience (CSR), July 26-28, 2021 : Virtual Conference : proceedings 2021 / p. 396-402 <https://doi.org/10.1109/CSR51186.2021.9527923>

Generating optimal test cases for real-time systems using DIVINE model checker

Pal, Deepak; **Vain, Jüri** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 99-102 : ill
http://www.ester.ee/record=b2150914*est

Geoanalytical method for linking base wastewater flows with a sanitary sewer model

Kändler, Nils; Annus, Ivar; Kaur, Katrin; Koor, Margus Urban water journal 2025 / p. 109-120
<https://doi.org/10.1080/1573062X.2024.2445119>

Grey wolf optimizer-based task scheduling for IoT-based applications in the edge computing

Satouf, Aram; Hamidoglu, Ali; Gul, Omer Melih; **Kuusik, Alar** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 53-57 <https://doi.org/10.1109/FMEC59375.2023.10306148>

[Halbwachs, N. Synchronous programming of reactive systems. The Kluwer International Series in Engineering and Computer Science, 1993 : Book review]

Mõtus, Leo Engineering applications of artificial intelligence 1994 / p. 336-337 https://www.ester.ee/record=b1200126*est

Handling timing in a time-critical reasoning system - a case study

Mõtus, Leo; Näks, Tõnu Postprints of IFAC Symposium on Artificial Intelligence in Real-time Control : Grand Canyon, Arizona, USA 1999 / p. 67-75 <https://www.sciencedirect.com/science/article/pii/S1367578801000153>

Handling timing in a time-critical reasoning system - a case study

Näks, Tõnu; Mõtus, Leo Annual reviews in control 2001 / p. 157-168
<https://www.sciencedirect.com/science/article/pii/S1367578801000153>

Hoonete energiahaldus reaalajas - esimesed tulemused

Ehitaja 2022 / lk. 26 : ill https://www.ester.ee/record=b1072123*est

Hoonete energiahaldus reaajas - esimesed tulemused [Võrguväljaanne]

ehitusuudised.ee 2022 "[Hoonete energiahaldus reaajas - esimesed tulemused](#)"

Implementation and real-time simulation of a fractional-order controller using a MATLAB based prototyping platform

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 145-148 : ill

Incomplete solution approach for the maximum clique finding in the real-time systems

Kumlander, Deniss Proceedings of the IASTED International Conference on Artificial Intelligence and Applications 2006 / p. 75-79
https://www.researchgate.net/publication/221173835_Incomplete_Solution_Approach_for_the_Maximum_Clique_Finding_in_the_Real_Time_Systems

The influence of real-time trust assessment and adaptive feedback on users' trust in Artificial intelligence : Autonomous vehicle case study

Ajenaghughrure, Ighoyota Ben; **Da Costa Sousa, Sonia Claudia; Lamas, David** ECCE 2025 : Proceedings of the 36th Annual Conference of the European Association of Cognitive Ergonomics (EACE) 2025 / art. 47 <http://doi.org/10.1145/3746175.3746217>

Integrated technique for developing real-time systems

Hooman, J.; **Vain, Jüri** Journal of system architecture 1996

Integrating methods for the design of real-time systems

Vain, Jüri Abstracts of NWPT'96, Oslo 1996 1996 / p. 32

Integrating refinement-based methods for developing timed systems

Vain, Jüri; Tsiopoulos, Leonidas; Boström, Pontus From action systems to distributed systems : the refinement approach 2016 / p. 171-185 <http://dx.doi.org/10.1201/b20053-17>

Integration of digital twins into virtual commissioning practices

Guerra Zubiaga, David; Richards, Gersom; Forsberg, Paul; Nwachukwu, Kingsley; Burroughs, Andrew; Sabula, Eric; **Kuts, Vladimir** ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE) ; vol. 2 2024 / art. IMECE2024-145598, V002T03A076 ; 9 p <https://doi.org/10.1115/IMECE2024-145598>

Integration of iUML-B and UPPAAL timed automata for development of real-time systems with concurrent processes

Shokri-Manninen, Fatima; **Tsiopoulos, Leonidas; Vain, Jüri; Walden, Marina** Rigorous State-Based Methods 7th International Conference, ABZ 2020, Ulm, Germany, May 27–29, 2020 : proceedings 2020 / p. 186-202 https://doi.org/10.1007/978-3-030-48077-6_13 [Conference proceedings at Scopus](#) [Article at Scopus](#)

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](#)

Linna sulps püüab jälle saada Anne kanali kehva suplusvee põhjusele

Arula, Eili tartu.postimees.ee 2024

Machinery real time monitoring application planning for workshop

Aruväli, Tanel 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 142-144 : ill

Machinery utilization monitoring and pause identification prototype model design

Aruväli, Tanel; Serg, Risto; Otto, Tauno Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 256-261 : ill

Mathematical model for real-time assessment of contributions of disturbing sources to power quality level at a point of common coupling

Sayenko, Yuri; Sukhonos, Maria; Kalyuzhnyi, Dmitry; **Bolgov, Viktor** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 29-35 : ill
<https://doi.org/10.1109/PQ.2016.7724085>

A method and a tool for formal timing analysis of OMT design

Mõtus, Leo; Näks, Tõnu IFAC/IFIP 21st Workshop on Real-time Programming, Gramado, Brazil, November 1996 1996 / [25] p
<https://www.sciencedirect.com/science/article/pii/S1474667017463476>

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

Method to reduce CPU overhead in blob detection and tracking algorithms [Electronic resource]

Joasoon, Erkki; Henno, Jaak 6th IEEE International Conference on Computational Cybernetics : Stara Lesna, Slovakkia, 27-29.11.2008 2008 / ? p. [CD-ROM] <https://www.semanticscholar.org/paper/A-method-to-reduce-CPU-overhead-in-blob-detection-Joasoon-Henno/81e23b66bf52d2800fe85a9394cc3412d4591215>

Model based approach for testing: distributed real-time systems augmented with online monitors

Pal, Deepak; Vain, Jüri Databases and Information Systems : 13th International Baltic Conference, DB&IS 2018, Trakai, Lithuania, July 1-4, 2018 : proceedings 2018 / p. 142-157 https://doi.org/10.1007/978-3-319-97571-9_13 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Model transformations in the Gene-Auto Automatic Code Generation

Toom, Andres; Näks, Tõnu Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 126-129 : ill

Model-based testing of real-time distributed systems

Vain, Jüri; Halling, Evelin; Kanter, Gert; Anier, Aivo; Pal, Deepak Databases and Information Systems : 12th International Baltic Conference, DB&IS 2016, Riga, Latvia, July 4-6, 2016 : proceedings 2016 / p. 272-286 : ill https://doi.org/10.1007/978-3-319-40180-5_19 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Model-based testing of real-time distributed systems = Reaalaja hajussüsteemide mudelipõhine testimine

Pal, Deepak 2020 https://www.ester.ee/record=b5389209*est <https://digikogu.taltech.ee/et/Item/b919afec-e786-4e14-9918-7d8db3b20cfe>

Nature of time in real-time computing systems

Mõtus, Leo IFAC World Congress, Pre-congress Advanced Workshop on Techniques for Time-critical Software Design, San Francisco, July 1996 1996

New efficient utility upper bounds for the fully adaptive model of attack trees

Buldass, Ahto; Lenin, Aleksandr Decision and game theory for security : 4th International Conference, GameSec 2013, Fort Worth, TX, USA, November 11-12, 2013 : proceedings 2013 / p. 192-205 : ill https://doi.org/10.1007/978-3-319-02786-9_12 [Computer Proceedings metrics at Scopus](#) [Article at Scopus](#)

New opportunities in real-time diagnostics of induction machines

Baraškova, Tatjana; Kudelina, Karolina; Shirokova, Veroonika Energies 2024 / art. 3265 <https://doi.org/10.3390/en17133265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel real-time parametric tracking approach for robust microwave filter tuning

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv; Kumar, Rahul, 1993- 2023 IEEE International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings) 2023 / 5 p. : ill <https://doi.org/10.1109/AIBThings58340.2023.10292473>

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](#)

Operational in situ oil spill detection in the Baltic sea using FerryBox system equipped with oil sensor

Pärt, Siim; Kõuts, Tarmo; Vahter, Kaimo 7th IEEE/OES Baltic Symposium Clean and Safe Baltic Sea and Energy Security for the Baltic countries : Abstract book, 12-15 June 2018, Klaipėda, Lithuania 2018 / p. 51 http://apc.ku.lt/balticvalley/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.pdf

Operational in situ oil spill detection in the Baltic Sea, using FerryBox system equipped with oil sensor [Online resource]

Kõuts, Tarmo; Pärt, Siim; Vahter, Kaimo Operational oceanography serving sustainable marine development : Proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 169-172 : ill <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

Peak flow reduction from small catchments using smart inlets

Kändler, Nils; Annus, Ivar; Vassiljev, Anatoli; Puust, Raido Urban water journal 2020 / p. 577-586 <https://doi.org/10.1080/1573062X.2019.1611888> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phasor measurement units performance assessment during power system disturbances using real-time digital simulator

Trummal, Tarmo; Kilter, Jako; Löper, Mari; Palu, Ivo 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818247>

Praegused reaalajas navigeerimise süsteemid ei tööta, kui osa teekonnast läbitakse parvlaevadel

Mugamäe, Eha Teeleht 2019 / lk. 39 : ill https://www.ester.ee/record=b1073043*est

Predictive machine learning analysis for reliable D2D discovery in 6G critical communications

Masood, Ali; Alam, Muhammad Mahtab; Le Moullec, Yannick 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 58-63 <https://doi.org/10.1109/FMEC59375.2023.10306113>

Production monitoring system development and modification

Snatkin, Aleksei; Eiskop, Tanel; Karjust, Kristo; Majak, Jüri Proceedings of the Estonian Academy of Sciences 2015 / p. 567-580 : ill https://artiklid.elnet.ee/record=b2750888*est <https://doi.org/10.3176/proc.2015.4S.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

"Reaalaja-infotehnoloogia"

Laast-Laas, Jüri Infotehnoloogia ja täppismajandusteadus = Infotechnology and exact economics = Инфотехнология и точная экономическая наука : vabariikliku teaduslik-praktilise seminari (Tallinn, 3. september 1988.a.) teeside kogumik. 1 1988 / lk. 56-59 https://www.ester.ee/record=b1249848*est

Reaalajamajanduse alused ja rakendusvõimalused : uuringu lõpparuanne [Võrguväljanne]

Krimmer, Robert Johannes; Kadak, Tarmo; Alishani, Art; Toots, Maarja; Soe, Ralf-Martin; Schmidt, Carsten 2019 https://www.mkm.ee/sites/default/files/taltech_rte_lopparuanne_ee.pdf

Reaalajas : [Leo Mõtuse ja Vello Hansoni vestlus]

Mõtus, Leo; Hanson, Vello Arvutimaailm 1995 / 7, lk. 46-48: fot

Real time controlled sustainable urban drainage systems in dense urban areas

Kändler, Nils; Annus, Ivar; Vassiljev, Anatoli; Puust, Raido Journal of water supply : research and technology - AQUA 2020 / p. 238-247 : ill <https://doi.org/10.2166/aqua.2019.083>

Real time data communication for intelligent extended reality applications

Köse, Ahmet; Tepļakov, 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 production monitoring system in SME

Snatkin, Aleksei; Karjust, Kristo; Majak, Jüri; Aruväli, Tanel; Eiskop, Tanel Estonian journal of engineering 2013 / p. 62-75 <https://doi.org/10.3176/eng.2013.1.06> [Article at Scopus](#)

Real time production monitoring system in SME

Snatkin, Aleksei; Karjust, Kristo; Eiskop, Tanel Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 573-578 : ill

Real time water supply system hydraulic and quality modeling - a case study

Sunela, Markus; Puust, Raido Procedia engineering 2015 / p. 744-752 : ill <https://doi.org/10.1016/j.proeng.2015.08.928> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Real-time behaviour verification, animation and monitoring starting from DCCS specification

Mõtus, Leo; Näks, Tõnu DCCS 2000 : 16th IFAC Workshop on Distributed Computer Control Systems : Sydney, Australia 29 Nov - 1 Dec 2000 : pre-prints 2000 / p. 85-92 <https://www.sciencedirect.com/science/article/pii/S1474667017367320>

Real-time control optimization of water distribution system with storage = Mahutitega veevarustussüsteemi juhtimise optimeerimine reaalajas

Sunela, Markus 2017 <https://digi.lib.ttu.ee/i/?9007> https://www.ester.ee/record=b4744261*est

Real-time crack detection on concrete using non-destructive approaches based on Yolo series : Review

Bassir, David; Chang, Haochen; Majak, Jüri Advances in Machinery, Materials Science and Engineering Application X : Proceedings of the 10th International Conference (MMSE 2024), Paris, France, 27-28 July 2024 2024 / p. 820-826 <https://doi.org/10.3233/ATDE240712> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Real-time data streaming for functionally improved eHealth solutions

Reilent, Enar; Kuusik, Alar; Puju, Madis Proceedings : IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI 2012) in conjunction with the 8th International Symposium on Medical Devices and Biosensors and the 7th International Symposium on Biomedical and Health Engineering "Global Grand Challenge of Health Informatics" : January 2-7, 2012, Hong Kong and Shenzhen, China 2012 / p. 140-143 : ill <https://ieeexplore.ieee.org/document/6211528>

Real-time determination of sarcomere length of a single cardiomyocyte during contraction

Peterson, Pearu; Kalda, Mari; Vendelin, Marko American journal of physiology - cell physiology 2013 / p. C519-C531 : ill <https://doi.org/10.1152/ajpcell.00032.2012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Real-time economy : A new frontier in business and economic growth

Alishani, Art; Olesk, Maarja; **Soe, Ralf-Martin; Kadak, Tarmo**; Krimmer, Robert Johannes Halduskultuur : The Estonian journal of administrative culture and digital governance 2025 / p. 129-155 <https://doi.org/10.32994/hk.v23i1-2.314>

Real-time economy : Definitions and implementation opportunities : Final research report [Online resource]

Krimmer, Robert Johannes; Kadak, Tarmo; Alishani, Art; **Toots, Maarja; Soe, Ralf-Martin; Schmidt, Carsten** 2019 https://www.mkm.ee/sites/default/files/taltech_rte_final_report_en1.0.pdf

Real-time electricity tariff system for retail market = Reaalaja tariifisüsteem jaeturule

Kivipõld, Tanel 2014 https://www.ester.ee/record=b3087313*est

Real-time estimation of transmission losses from PMU measurements

Tuttelberg, Kaur; Kilter, Jako IEEE PowerTech 2015 : Eindhoven, Holland, 29 June-02 July, 2015 2015 / [5] p. : ill <http://dx.doi.org/10.1109/PTC.2015.7232313>

Real-time gait anomaly detection using 1D-CNN and LSTM

Rostovski, Jakob; Ahmadilivani, 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 mechatronics measurement system in virtual environment

Sell, Raivo Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 58-61 : ill

Real-time monitoring of solar modules manufacturing

Tšukrejev, Pavel; Kruuser, Kaarel; Gorbachev, Georgy; Karjust, Kristo; Majak, Jüri International journal of engineering research in Africa 2020 / p. 9-13 <https://doi.org/10.4028/www.scientific.net/JERA.51.9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Real-time systems : incomplete solution approach for the maximum-weight clique problem

Kumlander, Deniss Proceedings of the IASTED International Conference on Artificial Intelligence and Applications : Innsbruck, Austria, February 11-13, 2008 2008 / p. 140-145

Real-time whole-cost optimization of water production and distribution

Sunela, Markus; Puust, Raido 15th International Conference on Computing and Control for the Water Industry : CCWI 2017, 5th-7th September, 2017 : abstracts 2017 / p. 88 https://www.sheffield.ac.uk/polopoly_fs/1.726380!/file/Booklet.pdf

Real-time whole-cost optimization of water production and distribution

Sunela, Markus; Puust, Raido CCWI2017 : Computing and Control in the Water Industry Conference, 2017, Sheffield 2017 / 9 p. : ill https://figshare.com/collections/CCWI2017_Computing_and_Control_in_the_Water_Industry_Conference_2017_Sheffield/3867985/1

Refinement-based development of timed systems

Berthing, Jesper; Boström, Pontus; Sere, Kaisa; Tsiopoulos, Leonidas; Vain, Jüri Integrated Formal Methods : 9th International Conference IFM 2012 : Pisa, Italy, June 18-21, 2012 : proceedings 2012 / p. 69-83 : ill https://link.springer.com/chapter/10.1007/978-3-642-30729-4_6

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](#)

Review of electric vehicle testing procedures for digital twin development : a comprehensive analysis

Rjabtšikov, Viktor; Rassõlkin, Anton; Kudelina, Karolina; Kallaste, Ants; Vaimann, Toomas Energies 2023 / art. 6952 <https://doi.org/10.3390/en16196952> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review on realtime simulation and analysis methods of microgrids

Ahmadihangar, Roya; Rosin, Argo; Nabavi Niaki, Ali; Palu, Ivo; Korõtko, Tarmo International transactions on electrical energy systems 2019 / art. e12106, 16 p. : ill <https://doi.org/10.1002/2050-7038.12106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

RISC-mikroprotsessorid reaalajasüsteemides

Toomsalu, Arvo Arvutustehnika ja Andmetöötlus 1994 / 10, lk. 2-5 ; 11, lk. 2-6

Scheduling framework for dependable NoC-based systems

Tagel, Mihkel; Ellervee, Peeter; Jervan, Gert Workshop Digest. Diagnostic Services in Network-on-Chips - Test, Debug, and On-Line Monitoring : DATE 2009 : Nice, France, 20-24 April, 2009 2009 / ? p <https://ieeexplore.ieee.org/document/5335670>

Scheduling framework for real-time dependable NoC-based systems

Tagel, Mihkel; Ellervee, Peeter; Jervan, Gert Proceedings of the 11th International Conference on System-on-chip : Tampere, Finland, October 05-07, 2009 2009 / p. 95-99 <https://ieeexplore.ieee.org/document/5335670/keywords#keywords>

Service placement and migration algorithm utilizing precise positioning for connected and automated vehicles

Elgarhy, Osama Mohamed Mostafa; Alam, Muhammad Mahtab; Reggiani, Luca; Azeem, Muhammad Moazam 2023 IEEE Conference on Standards for Communications and Networking (CSCN) 2023 / p. 183-188
<https://doi.org/10.1109/CSCN60443.2023.10453210>

Simulation of real time electricity price based energy management system [Online resource]

Lebedev, Denis; Rosin, Argo; Kütt, Lauri Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 2106-2110 : ill <https://doi.org/10.1109/IECON.2016.7793991> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Specification and formal analysis of real-time software in Conrad

Kaldma, Tarmo; Mõtus, Leo; Paluoja, Rein; Tekko, Jaanus; Tommingas, Toomas Postprints of 19th IFAC/IFIP Workshop on Real-time Programming, 22-24 June, Isle of Reichenau, Lake Constance, Germany, 1994 1994 / p. 67-72

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>

System level design of dependable real-time Systems-on-Chip

Tagel, Mihkel; Jervan, Gert Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 77-80 : ill

Task classification for optimal offloading and resource allocation in vehicular edge computing

Mubashir, Memona; Ahmad, Rizwan; Saadat, Ahsan; Chaudhry, Saqib Rasool; Kiani, Adnan Khalid; **Alam, Muhammad Mahtab** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 15-21
<https://doi.org/10.1109/FMEC59375.2023.10306155>

Teadlased annavad otsepilti merevee tõusust : [TTÜ meresüsteemide instituudi vanemteadur Tarmo Kõuts räägib veetaseme jälgimise online-süsteemist]

Püüa, Marko; **Kõuts, Tarmo** Postimees 2007 / 12. jaan., lk. 3 <https://www.postimees.ee/1618225/teadlased-toodavad-otsepilti-merevee-tousust>

Tester partitioning and synchronization algorithm for testing real-time distributed systems

Pal, Deepak; Vain, Jüri Proceedings of the 10th Junior Researcher Workshop on Real-Time Computing : JRWRTC 2016 : Brest, France, October 19-21, 2016 2016 / p. 13-16 : ill <http://jrwrtc2016.gforge.inria.fr/>

The design and analysis of low cost real-time fieldbus systems

Rodd, Michael G.; Dimyati, K.; **Mõtus, Leo** IFAC Workshop on Distributed Computer Control Systems, August 1997, Seoul, Korea 1997 <https://www.sciencedirect.com/science/article/abs/pii/S0967066197100533>

The design and analysis of low-cost real-time fieldbus systems

Rodd, Michael G.; Dimyati, K.; **Mõtus, Leo** Control engineering practice 1998 / 1, p. 83-91
<https://www.sciencedirect.com/science/article/abs/pii/S0967066197100533>

The impact of software timing correctness on systems safety

Mõtus, Leo; Rodd, Michael G.; Neill, C. Preprints IFCA 2nd Workshop on Safety and Reliability on Emerging Control Technology, 1995 1995 / p. 193-203 <https://www.sciencedirect.com/science/article/pii/S1474667017448324>

The LIMITS of time

Mõtus, Leo IEE Computer and Control Division, Divisional lecture, London, May 1996 1996

Time concepts in real-time software

Mõtus, Leo Eesti Teaduste Akadeemia Toimetised. Füüsika. Matemaatika 1993 / 1, lk. 63-76

Time concepts in real-time software

Mõtus, Leo Control engineering practice 1993 / 1, p. 21-33

Time concepts in software

Mõtus, Leo Concise encyclopedia of software engineering 1993 / p. 356-359

Timing analysis of real-time software

Mõtus, Leo; Rodd, Michael G. 1994 https://www.ester.ee/record=b1031469*est

Tools and Techniques for event log analysis

Vaarandi, Risto 2005 https://www.ester.ee/record=b2045293*est

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 self-organising time-sensitive control system's software

Mõtus, Leo; Meriste, Merik IFAC Conference on New Technologies for Computer Control : NTCC 2001 : 19-22 November 2001, Hong Kong : final program and abstracts 2001 / p. 236-241 <https://www.sciencedirect.com/science/article/pii/S1474667017329440>

Tracking (hazardous) cargo at sea : an experiment

Džankic, Radoje; Bauk, Sanja XVI međunaroni naučno-stručni skup Informacione Tehnologije za e-Obrazovanje : ITeO : zbornik radova 2024 / p. 27-35 https://iteo.rs.ba/sites/default/files/ITeO_Zbornik%20radova%202024%20%281%29.pdf

Trainable real-time motion recognition

Anier, Aivo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuuseum 2007 / lk. 91-92 : ill

Trajectory generation for autonomous vehicles

Vu, Trieu Minh Mechatronics 2013 : recent technological and scientific advances 2014 / p. 615-626 : ill

Trends in artificial intelligence applications for real-time control : (a speculative study)

Mõtus, Leo BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 71-83

Trends in artificial intelligence applications for real-time control : (a speculative study)

Mõtus, Leo AIRTC'94 : [IFAC] Symposium on Artificial Intelligence in Real Time Control, Valencia, 3-5 October 1994 : preprints 1994 / p. 35-45

Tudengite loodud seiresüsteem aitab tuvastada reegleid rikkuvaid droone

Lieberg, E. Tartu Postimees 2025 / lk. 1 <https://dea.digar.ee/article/tartupostimees/2025/06/18/3> <https://tartu.postimees.ee/8270802/tudengite-loodud-seiresusteem-aitab-tuvastada-reegleid-rikkuvaid-droone>

Using real-time indoor resource positioning to track the progress of tasks in construction sites

Zhao, Jianyu; **Pikas, Ergo;** Seppänen, Olli; Peltokorpi, Antti Frontiers in Built Environment 2021 / art. 66166 <https://doi.org/10.3389/fbuil.2021.661166>

Wear resistance analysis of duplex interpenetrating ceramic composites via in-situ vibration monitoring

Kariminejad, Arash; Auriemma, Fabio; Antonov, Maksim; Klimczyk, Piotr; Hussainova, Irina International journal of refractory metals and hard materials 2026 / art. 107454 <https://doi.org/10.1016/j.jirmhm.2025.107454>

The weather impact on corona losses of 330 kV aging transmission lines

Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863024>

Verifying response times in networked automation systems using jitter bounds

Srinivasan, Seshadhri; **Vain, Jüri** IEEE 25th International Symposium on Software Reliability Engineering Workshops : ISSREW 2014 : 3-6 November 2014, Naples, Italy : proceedings 2014 / p. 47-50 : ill

База данных для систем реального времени

Elmik, Lea; Roost, Mart Обработка данных. Построение трансляторов. Вопросы программирования 1987 / с. 90-99

Беспоисковое разделение перекрывающихся импульсов

Arro, Ilmar; Sullakatko, Toomas Тезисы докладов Республиканской научно-технической конференции, посвященной Дню радио. Секция "Системы реального времени" 1980 / с. 22-23 https://www.ester.ee/record=b1304209*est

Методы решения задач реального времени в электроэнергетике
Meldorf, Mati 1991

О разработке технологических структур для систем реального времени
Lumberg, Tiiu; Raspel, Priit Обработка данных. Построение трансляторов. Вопросы программирования 1987 / с. 100-113

Об автоматизированной системе реального времени КТ-I и о методе эргономического исследования детерминированных рабочих процессов (операций) в системе "человек-техника"

Kiivet, Gunnar; Tosso, Henn Reaalajasüsteemid automatiseeritud ergonoomilistes uuringutes = Автоматизированные системы реального времени для эргономических исследований : vabariikliku konverentsi teesid : Tartu-Kääriku, 28.-29. september 1988. a. 1988 / с. 8-10 <https://dspace.ut.ee/handle/10062/54627> https://www.ester.ee/record=b1256601*est

Об автоматизированной системе реального времени КТ-I и о методе эргономического исследования детерминированных рабочих процессов (операций) в системе "человек-техника"

Kiivet, Gunnar; Tosso, Henn Reaalajasüsteemid automatiseeritud ergonoomilistes uuringutes = Автоматизированные системы реального времени для эргономических исследований : vabariikliku konverentsi teesid : Tartu-Kääriku, 28.-29. september 1988. a. 1988 / lk. 8-10 https://www.ester.ee/record=b1256601*est

Проблемы создания информационных систем реального времени

Mikli, Toomas Обработка данных. Построение трансляторов. Вопросы программирования 1987 / с. 81-89

Ученые трех университетов попытаются выяснить причину низкого качества воды в канале Анне

rus.err.ee 2024 <https://rus.err.ee/1609558231/uchenye-treh-universitetov-popytajutsja-vyjasnit-prichinu-nizkogo-kachestva-vody-v-kanale-anne>