

Accuracy analysis of selected time series and machine learning methods for smart cities based on Estonian electricity consumption forecast

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Korõtko, Tarmo; Biechl, Helmut 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 425-428 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161690>

Accurate prediction of international trade flows : leveraging knowledge graphs and their embeddings

Rincon-Yanez, Diego; **Ounoughi, Chahinez; Sellami, Bassem; Kalvet, Tarmo; Tiits, Marek;** Senatore, Sabrina; **Ben Yahia, Sadok** Journal of King Saud University - computer and information sciences 2023 / art. 101789, 11 p <https://doi.org/10.1016/j.jksuci.2023.101789> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Adaptive industrial robots using machine vision

Kuts, Vladimir; Otto, Tauno; Tähemaa, Toivo; Bukhari, Khuldoon; Pataraiia, Tengiz ASME 2018 International Mechanical Engineering Congress and Exposition, Pittsburgh, Pennsylvania, USA, November 9–15, 2018 2018 / Paper No. IMECE2018-86720, pp. V002T02A093, 8 p. : ill <https://doi.org/10.1115/IMECE2018-86720>

An advanced diagnostic approach for broken rotor bar detection and classification in DTC controlled induction motors by leveraging dynamic SHAP interaction feature selection (DSHAP-IFS) GBDT methodology

Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Machines 2024 / art. 495 <https://doi.org/10.3390/machines12070495>

Advancing solar power forecasting with machine learning

Hokmabad, Hossein Nourollahi 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. 89-90 : ill https://www.ester.ee/record=b5570906*est

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>

An effective inductive learning algorithm for extracting rules

Kuusik, Rein, inform.; Lind, Grete Proceedings of the 2011 2nd International Congress on Computer Applications and Computational Science. Vol. 2 2012 / p. 339-344 https://link.springer.com/chapter/10.1007/978-3-642-28308-6_46

Analyzing and investigating encrypted traffic for social media application Instagram

Iqbal, Hameed; Ahmad, Rizwan; Ahmed, Waqas; Qazi, Shams; **Alam, Muhammad Mahtab** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935603>

Android malware concept drift using system calls : detection, characterization and challenges

Guerra Manzanares, Alejandro; Luckner, Marcin; **Bahsi, Hayretdin** Expert systems with applications 2022 / art. 117200, 19 p. : ill <https://doi.org/10.1016/j.eswa.2022.117200> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Anomaly detection and classification in power system state estimation: Combining model-based and data-driven methods

Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir Sustainable energy, grids and networks 2023 / art. 101116 <https://doi.org/10.1016/j.segan.2023.101116> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Anti-money laundering powered by graph machine learning: 'Show me your friends and I will tell you who you are'

Astrova, Irina Intelligent decision technologies 2023 / p. 243-261 <https://doi.org/10.3233/IDT-220193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Applicability of spiral drawing test for mental fatigue modelling

Senkiv, Olesja; Nõmm, Sven; Toomela, Aaro IFAC-PapersOnLine 2019 / p. 190-195 : ill <https://doi.org/10.1016/j.ifacol.2019.01.064> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Application of artificial intelligence and machine learning for BIM : review

Bassir, David; Lodge, Hugo; Chang, Haochen; **Majak, Jüri;** Chen, Gonfa International journal for simulation and multidisciplinary design optimization 2023 / art. 5 <https://doi.org/10.1051/smdo/2023005> [Journal metrics at Scopus](#) [Article at Scopus](#)

Application of deep conditional generative adversarial networks to fill the gaps of satellite altimetry-based absolute dynamic topography

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-1627>

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](#)

Applied machine learning methods in microgrid simulations

Häring, Tobias 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 151-152 : ill https://www.ester.ee/record=b5291755*est

Applying machine learning with satellite altimetry data for prediction of absolute dynamic topography for the Baltic Sea

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 26 I. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Applying reinforcement learning method for real-time energy management

Borhan Dayani, Aida; **Fazlollahtabar, Hamed; Ahmadiyahangar, Roya; Rosin, Argo** 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 5 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783766>

Artificial intelligence and education

Jaakkola, Hannu; **Henno, Jaak**; Lahti, J-P.; Järvinen, Raimo; Mäkeläinen, Jukka 2020 43rd International Convention on Information, Communication and Electronic Technology (MIPRO), 28 Sept.-2 Oct. 2020, Opatija, Croatia : proceedings 2020 / p. 548-555 <https://doi.org/10.23919/MIPRO48935.2020.9245329>

Artificial intelligence and the GDPR : Inevitable nemeses?

Kesa, Aleksandr; **Kerikmäe, Tanel** TalTech journal of European studies 2020 / p. 68-90 <https://doi.org/10.1515/bjes-2020-0022> https://content.sciendo.com/view/journals/bjes/bjes-overview.xml?tab_body=latestIssueToc-79907 https://www.ester.ee/record=b5290032*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial intelligence in monitoring and diagnostics of electrical energy conversion systems

Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Pomarnacki, Raimondas; **Belahcen, Anouar**; Van Khang, Hyunh 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p <https://doi.org/10.1109/IWED48848.2020.9069566>

Artificial intelligence tools for university fundraising 5.0 : a comprehensive analysis

Cherniavska, O.; Belov, A.; Shmygol, N.; **Järvis, Marina**; Cherniavska, O.; Tsalko, T. 2023 IEEE 5th International Conference on Modern Electrical and Energy System (MEES) : proceedings 2023 / 6 p <https://doi.org/10.1109/MEES61502.2023.10402529>

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](#)

At the crossroads of product complexity, market demand, and machine learning

Kalvet, Tarmo; Tiits, Marek; Ounoughi, Chahinez; Ben Sassi, Imen; Ben Yahia, Sadok Management & marketing 2024

Author Correction : DOME : recommendations for supervised machine learning validation in biology

Walsh, Ian; Fishman, Dmytro; Garcia-Gasulla, Dario; **Titma, Tiina**; Pollastri, Gianluca Nature methods 2021 / p. 1409–1410 : ill <https://doi.org/10.1038/s41592-021-01304-2> [Journal metrics at Scopus](#) [Article at Scopus](#)

Automatic NLOS classification from virtual 3D city models

Mürsepp, Ivo; Alam, Muhammad Mahtab 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 190-195 <https://doi.org/10.1109/FMEC59375.2023.10306158>

Autonomous cyber defence capabilities

Tammet, Tanel Autonomous cyber capabilities under international law 2021 / p. 36-50 https://www.ester.ee/record=b5395402*est

A Bayesian optimization approach for calibrating large-scale activity-based transport models

Agriesti, Serio; Kuzmanovski, Vladimir; Hollmen, Jaakko; Roncoli, Claudio; Nahmias-Biran, Bat-Hen IEEE Open Journal of Intelligent Transportation Systems 2023 / p. 740 - 754 <https://doi.org/10.1109/OJITS.2023.3321110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The bearing faults detection methods for electrical machines — the state of the art

Khan, Muhammad Amir; **Asad, Bilal; Kudelina, Karolina; Vaimann, Toomas; Kallaste, Ants** Energies 2023 / art. 296 <https://doi.org/10.3390/en16010296> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Behavioural compass : animal behaviour recognition using magnetometers

Chakravarty, Pritish; **Maalberg, Maiki**; Cozzi, Gabriele; Ozgul, Arpat; Aminian, Kamiar Movement Ecology 2019 / Art. nr. 28
<https://doi.org/10.1186/s40462-019-0172-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics 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](#)

Biomimetics

2024 https://www.mdpi.com/journal/biomimetics/special_issues/0K2292JW30

Building morphology influence on outdoor comfort in urban environments. An analysis through machine learning

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari Proceedings of the 12th Annual Symposium on Simulation for Architecture and Urban Design 2021 <http://www.simaud.org/2021/program.php>

CapsNet on embedded devices in a data scarce scenario

Ezechukwu, Dismas Ndubuis; Le Moulec, Yannick 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 I.
<https://doi.org/10.1109/BEC56180.2022.9935600>

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>

Classification of the energy production potential of water lens solar concentrators using machine learning

Zarrinkafsh, Hamidreza; **Eslamirad, Nasim; De Luca, Francesco** Journal of Physics: Conference Series 2021 / art. 012022, 6 p. : ill
<https://doi.org/10.1088/1742-6596/2042/1/012022> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Closed-loop droplet size control in microfluidics = Suletud ahelaga tilkade suuruse juhtimine mikrofluidikas

Gyimah, Nafisat 2024 <https://digikogu.taltech.ee/et/item/c4a0c9de-83e5-41ff-bdcf-24ba61182d1f> https://www.ester.ee/record=b5698980*est
<https://doi.org/10.23658/taltech.47/2024>

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>

A comparative analysis of symbolic and deep learning based RDFS materialization

Traagel, Mart; Carneiro Alves de Lima, Bruno Rucy; Cabral Pinheiro, Victor Henrique AICCC '23: Proceedings of the 2023 6th artificial intelligence and cloud computing conference 2023 / p. 60-65 <https://doi.org/10.1145/3639592.3639601>

Comparison of Bayesian and particle swarm algorithms for hyperparameter optimisation in machine learning applications in high energy physics

Tani, Laurits; Veelken, Christian Computer physics communications 2024 / p. 108955 <https://doi.org/10.1016/j.cpc.2023.108955>

Comparison of Bayesian and particle swarm algorithms for hyperparameter optimisation in machine learning applications in high energy physics : [preprint]

Tani, Laurits; Veelken, Christian arXiv.org 2024 / 8 p. : ill <https://doi.org/10.48550/arXiv.2201.06809>

Comparison of deep learning models for multivariate prediction of time series wind power generation and temperature

Mishra, Sambheet; Bordin, Chiara; Taharaguchi, Kota; Palu, Ivo Energy reports 2020 / p. 273–286
<https://doi.org/10.1016/j.egy.2019.11.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of machine learning algorithms for classification of partial discharge signals in medium voltage components

Kumar, Hareesh; **Shafiq, Muhammad; Hussain, Ghulam Amjad; Kauhaniemi, Kimmo** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 6 p
<https://doi.org/10.1109/ISGTEurope52324.2021.9639923>

Comparison of machine learning based methods for residential load forecasting

Shabbir, Noman; Ahmadiyahangar, Roya; Kütt, Lauri; Rosin, Argo 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818267>

Computationally efficient multi-task learning with least-squares probabilistic classifiers

Simm, Jaak; Sugiyama, Masashi; Kato, Tsuyoshi IPSJ transactions on computer vision and applications 2011 / Feb., [8] p. : ill
https://www.researchgate.net/publication/215704981_Computationally_Efficient_Multi-task_Learning_with_Least-Squares_Probabilistic_Classifiers

Computer science students early drop-out prediction using machine learning : a case study

Maksimova, Natalja; Pentel, Avar; Dunajeva, Olga Learning with Technologies and Technologies in Learning 2022 / p. 523-549
https://doi.org/10.1007/978-3-031-04286-7_25 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Concept drift and cross-device behavior : challenges and implications for effective android malware detection

Guerra Manzanares, Alejandro; Luckner, Marcin; Bahsi, Hayretin Computers & Security 2022 / art. 102757, 20 p. : ill
<https://doi.org/10.1016/j.cose.2022.102757> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Concept formation in exploratory data analysis : case studies of linguistic and banking data = Mõiste moodustamine uurivas andmeanalüüsis: keele- ja pangandusandmete juhtumianalüüsid

Kirt, Toomas 2007 https://www.ester.ee/record=b2324671*est

Conceptual challenges of researching Artificial Intelligence in public administrations

Noordt, Colin Pascal van 23rd Annual International Conference on Digital Government Research (DGO2022) : Intelligent Technologies, Governments and Citizens, June 15-17, 2022 : proceedings 2022 / p. 183-190 <https://doi.org/10.1145/3543434.3543441>
[Conference proceedings at Scopus](#) [Article at Scopus](#)

Condition monitoring and diagnostic of electrical machines using IoT and machine learning

Raja, Hadi Ashraf 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 31-32 : ill https://www.ester.ee/record=b5504019*est

Confidences for commonsense reasoning.

Tammet, Tanel; Draheim, Dirk; Järv, Priit Automated Deduction - CADE 28 : 28th International Conference on Automated Deduction, Virtual Event, July 12-15, 2021 : proceedings 2021 / p. 507-524 https://doi.org/10.1007/978-3-030-79876-5_29 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Consolidation of crowd-sourced geo-tagged data for parameterized travel recommendations = Kasutajatelt kogutud andmete integreerimine parametriseeritud reisisoovituste loomiseks

Luberg, Ago 2021 <https://doi.org/10.23658/taltech.23/2021> <https://digikogu.taltech.ee/et/Item/f5415d5d-63b8-4726-9dea-939c399058c0>
https://www.ester.ee/record=b5428765*est

Corrigendum to Concept drift and cross-device behavior: Challenges and implications for effective android malware detection Computers & Security, Volume 120, 102757 (Computers & Security (2022) 120, (S0167404822001523), (10.1016/j.cose.2022.102757))

Guerra-Manzanares, Alejandro; Luckner, Marcin; Bahsi, Hayretin Computers and Security 2023 / art. 102998
<https://doi.org/10.1016/j.cose.2022.102998> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices

Asad, Bilal; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 <https://doi.org/10.3390/electronics12071746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Custom simplified machine learning algorithms for fault diagnosis in electrical machines

Raja, Hadi Ashraf; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p.
<https://doi.org/10.1109/Diagnostika55131.2022.9905174>

DAAG-SNP: energy efficient distance and angulation based agglomerative clustering for sink node placement

Hanif, Maria; Ahmad, Rizwan; Ahmed, Waqas; Drieberg, Micheal; **Alam, Muhammad Mahtab** IEEE Open Journal of the Communications Society 2024 / 14 p <https://doi.org/10.1109/OJCOMS.2024.3421901>

Data generative machine learning model for the assessment of outdoor thermal and wind comfort in a northern urban environment

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok Frontiers of architectural research 2023 / p. 541-555 : ill <https://doi.org/10.1016/j.foar.2022.12.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data science-based techniques for modelling and diagnostics of battery cells based on end-of-life criteria

Gilbert Zequera, Rolando Antonio; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 6 p <https://doi.org/10.1109/EDPE58625.2023.10274007>

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 urban modelling : the case of explainable detection of urban heat island = Andmepõhine linnamodelleerimine : soojusaarte seletatav tuvastamine

Eslamirad, Nasim 2023 https://www.ester.ee/record=b5645371*est <https://doi.org/10.23658/taltech.68/2023>
<https://digikogu.taltech.ee/et/Item/ff9725f6-fc34-474c-ad5b-0ed6128127ee> https://www.ester.ee/record=b5645371*est

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

Hokmabad, Hossein Nourollahi; 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 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

Deep reinforcement learning for automated tuning of cavity filters

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv Proceedings of IEEE Forum International Conference 2019 / p. 53
http://www.digitalxplore.org/up_proc/pdf/408-154943387153.pdf

Deep Reinforcement Learning for energy-aware task offloading in join SDN-Blockchain 5G massive IoT edge network

Sellami, Bassem; Hakiri, Akram; Ben Yahia, Sadok Future generation computer systems 2022 / p. 363-379
<https://doi.org/10.1016/j.future.2022.07.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at Scopus](#)

Deep reinforcement learning-based digital twin for droplet microfluidics control

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas Physics of Fluids 2023 / art. 082020 <https://doi.org/10.1063/5.0159981>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Detecting Simpson's paradox : a machine learning perspective

Sharma, Rahul; Garayev, Huseyn; Kaushik, Minakshi; Arakkal Peious, Sijo; Tiwari, Prauag; Draheim, Dirk Database and Expert Systems Applications : 33rd International Conference, DEXA 2022, Vienna, Austria, August 22-24, 2022 : proceedings. Part I 2022 / p. 323-335 : ill https://doi.org/10.1007/978-3-031-12423-5_25 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Detecting Simpson's paradox : a step towards fairness in machine learning

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Bertl, Markus; Ankit, Vidyarthi; Ashwani, Kumar; Draheim, Dirk New Trends in Database and Information Systems : ADBIS 2022 Short Papers, Doctoral Consortium and Workshops : DOING, K-GALS, MADEISD, MegaData, SWODCH, Turin, Italy, September 5-8, 2022 : proceedings 2022 / p. 67-76 : ill https://doi.org/10.1007/978-3-031-15743-1_7 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

Detection of bulbar involvement in patients with amyotrophic lateral sclerosis by machine learning voice analysis : diagnostic decision support development study

Tena, Alberto; Claria, Francec; Solsona, Francesc; Meister, Einar; Povedano, Monica JMIR Medical Informatics 2021 / e21331, 18 p. : ill <https://doi.org/10.2196/21331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determining necessary length of the alternating series test for Parkinson's disease modelling

Nõmm, Sven; Kossas, Tanel; Toomela, Aaro; Medijainen, Kadri; Taba, Pille 2019 International Conference on Cyberworlds : CW 2019 : 2-4 October 2019, Kyoto, Japan : proceedings 2019 / p. 261-266 : ill <http://doi.org/10.1109/CW.2019.00050>

Development and utilization of synthetic signals for fault diagnostics of electrical machines

Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants IEEE journal of emerging and selected topics in industrial electronics 2024 / 9 p <https://doi.org/10.1109/JESTIE.2024.3395650>

Differences in Android behavior between real device and emulator : a malware detection perspective

Guerra Manzanares, Alejandro; Bahsi, Hayretdin; Nõmm, Sven 6th International Conference on Internet of Things: Systems, Management and Security (IOTSMS), Granada, Spain, October 22-25, 2019 2019 / art. 8939268, p. 399-404
<https://doi.org/10.1109/IOTSMS48152.2019.8939268>

Digital Economy. Emerging Technologies and Business Innovation : 6th International Conference on Digital Economy, ICDEc 2021, Tallinn, Estonia, July 15-17, 2021 : proceedings

2021 <https://doi.org/10.1007/978-3-030-92909-1>

Digital transformation insights from an AI solution in search of a problem

Dreyling III, Richard Michael; Tammet, Tanel; Pappel, Ingrid Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 10th International Conference, FDSE 2023, Da Nang, Vietnam, November 22–24, 2023 : proceedings 2023 / p. 341 - 351 https://doi.org/10.1007/978-981-99-8296-7_24 [Conference Proceedings at Scopus Article at Scopus](#)

Digital twin based computational methods for XR applications = Digitaalkaksikute põhised arvutuslikud meetodid XR rakenduste jaoks

Alsaleh, Saleh Ragheb Saleh 2024 <https://doi.org/10.23658/taltech.15/2024> https://www.ester.ee/record=b5674508*est
<https://digikogu.taltech.ee/et/Item/557fefce-a06a-479b-bc30-70910085d23d>

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

Alsaleh, Saleh Ragheb Saleh; Tepļakov, Aleksej; 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>

Dimensionality reduction for machine learning based IoT botnet detection

Bahsi, Hayretidin; Nömm, Sven 15th International Conference on Control, Automation, Robotics and Vision (ICARCV 2018) : Singapore, November 18-21, 2018 2018 / p. 1857-1862 : ill <https://doi.org/10.1109/ICARCV.2018.8581205>

Discretizing numerical attributes : an analysis of human perceptions

Kaushik, Minakshi; Sharma, Rahul; Draheim, Dirk arXiv.org 2023 / 18 p. : ill <https://doi.org/10.48550/arXiv.2311.03278>

Discretizing numerical attributes : an analysis of human perceptions : [conference paper]

Kaushik, Minakshi; Sharma, Rahul; Vidyarthi, Ankit; Draheim, Dirk New Trends in Database and Information Systems : ADBIS 2022 Short Papers, Doctoral Consortium and Workshops : DOING, K-GALS, MADEISD, MegaData, SWODCH, Turin, Italy, September 5-8, 2022 : proceedings 2022 / p. 188-197 https://doi.org/10.1007/978-3-031-15743-1_18 [Conference proceedings at Scopus Article at Scopus Article at WOS](#)

Distributed scalable association rule mining over Covid-19 data

Shahin, Mahtab; Inoubli, Wissem; Shah, Syed Attique; Ben Yahia, Sadok; Draheim, Dirk Future Data and Security Engineering : 8th International Conference, FDSE 2021, Virtual Event, November 24–26, 2021 : proceedings 2021 / p. 39-52 https://doi.org/10.1007/978-3-030-91387-8_3 [Conference Proceedings at Scopus Article at Scopus](#)

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>

Domain adaptation approach for Arabic sarcasm selection in hotel reviews based on hybrid learning

Ameur, Asma; Hamdi, Sana; Ben Yahia, Sadok Procedia computer science 2023 / p. 3898-3908 <https://doi.org/10.1016/j.procs.2023.10.385> [Conference proceeding at Scopus Article at Scopus](#)

DOME : recommendations for supervised machine learning validation in biology

Walsh, Ian; Fishman, Dmytro; Garcia-Gasulla, Dario; Titma, Tiina; Pollastri, Gianluca; Harrow, Jennifer; Psomopoulos, Fotis E.; Tosatto, Silvio C. E. Nature methods 2021 / p. 1122–1127 <https://doi.org/10.1038/s41592-021-01205-4> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

Double deep Q-Learning approach for tuning microwave cavity filters using locally linear embedding technique

Sekhri, Even; Kapoor, Rajiv; Tamre, Mart 2020 International Conference Mechatronic Systems and Materials (MSM) 2020 / 6 p. : ill <https://doi.org/10.1109/MSM49833.2020.9202393>

A DRL strategy for optimal resource allocation along with 3D trajectory dynamics in UAV-MEC network

Khurshid, Tayyaba; Ahmed, Waqas; Rehan, Muhammad; Ahmad, Rizwan; Alam, Muhammad Mahtab; Radwan, Ayman IEEE Access 2023 / p. 54664 - 54678 <https://doi.org/10.1109/ACCESS.2023.3278591> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

Eesti insener pani püsti tarkvaraäri, mida juhib tehisaruga

Einama, Kaido postimees.ee 2024 [Eesti insener pani püsti tarkvaraäri, mida juhib tehisaruga](https://postimees.ee/2024/01/10/est-ai-engineer-starts-software-business-led-by-robot)

Eesti IT valdkonna suvekool toob Tartusse masinõppe ja tehisintellekti tippteadlased [Võrguväljaanne]

postimees.ee 2022 [Eesti IT valdkonna suvekool toob Tartusse masinõppe ja tehisintellekti tippteadlased](https://postimees.ee/2022/07/14/est-it-industry-summer-school-brings-experts-in-robotics-and-ai)

Eesti teadlased tegid tarkvara, mis ennetab küberrünnakuid

Pihel, Hele-Riin postimees.ee 2023 [Eesti teadlased tegid tarkvara, mis ennetab küberrünnakuid](https://postimees.ee/2023/01/10/est-researchers-develop-software-to-prevent-cyberattacks)

Eesti teadlaste masintõlge võib asendada suurfirmade loodud [Võrguväljaanne]

Effects of annotation quality on model performance

Alhazmi, Khaled; Alsumari, Walaa; Seppo, Indrek; Podkuiko, Lara; **Simon, Martin** 2021 International Conference on Artificial Intelligence in Information and Communication (ICAIC), 13-16 April 2021 2021 / p. 063–067
<https://doi.org/10.1109/ICAIC51459.2021.9415271>

Ehitustegevuse kaardistamine kaugseirega

Puust, Raido Horisont 2020 / lk. 49-53 : fot https://www.ester.ee/record=b1072243*est

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>

Enhanced decision mechanism for RAN subslicing in management closed control loop

Kulmar, Marika; Müürsepp, Ivo; Alam, Muhammad Mahtab 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 175-181 : ill <https://doi.org/10.1109/FMEC59375.2023.10306223>

Ensemble approach for detection of depression using EEG features

Avots, Egils; Jermakovs, Klavs; **Bachmann, Maie; Päeske, Laura**; Ozcinar, Cagri; Anbarjafari, Gholamreza Entropy 2022 / art. 211
<https://doi.org/10.3390/e24020211> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Müller, Jasper; Fehenberger, Tobias; Patri, Sai Kireet; **Kaeval, 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>

Estimating UWB positioning integrity based on ranging residuals

Tommingas, Mihkel; Ulp, Sander; Alam, Muhammad Mahtab; Müürsepp, Ivo; Laadung, Taavi 2023 24th International Conference on Applied Electromagnetics and Communications (ICECOM) 2023 / 5 p
<https://doi.org/10.1109/ICECOM58258.2023.10367954>

Euroopa oma tehismõistus

Tammet, Tanel; Liiv, Innar Sirp 2020 / lk. 33-34 : ill <https://www.sirp.ee/s1-artiklid/c21-teadus/euroopa-oma-tehismoistus/>
https://www.ester.ee/record=b1072938*est

Evaluation of data quality in the Estonian National Health Information System for digital decision support

Bertl, Markus; Kankainen, Kristian Juha Ismo; Piho, Gunnar; Draheim, Dirk; Ross, Peeter Proceedings of the 3rd International Health Data Workshop (HEDA 2023) co-located with Software Technologies: Applications and Foundations (STAF 2023) : Leicester, United Kingdom, July 21, 2023. Vol. 3440 2023 / paper 1, 13 p. : ill <https://ceur-ws.org/Vol-3440/paper1.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Evaluation of deep learning-based depression detection using medical claims data

Bertl, Markus; Bignoumba, Nzamba; Ross, Peeter; Ben Yahia, Sadok; Draheim, Dirk Artificial intelligence in medicine 2024 / art. 102745, 16 p. : ill <https://doi.org/10.1016/j.artmed.2023.102745>

Evaluation of deep learning-based depression detection using medical claims data : preprint

Bertl, Markus; Bignoumba, Nzamba; Ross, Peeter; Ben Yahia, Sadok; Draheim, Dirk SSRN 2023 / p. 1-34 : ill <https://doi.org/10.2139/ssrn.4478987>

Evelekt AS turnover forecasting using the machine learning method

Reiman, Riido AI IN BUSINESS : proceedings of the scientific workshop on business implications of artificial intelligence, June 7, 2022 2022 / p. 58-60 : ill https://www.ester.ee/record=b5506022*est <https://digikogu.taltech.ee/et/Item/2096bada-661d-4928-99a7-bf5ce51825d8>

Evolutionary algorithms for hyperparameter optimization in machine learning for application in high energy physics

Tani, Laurits; Rand, Diana; Veelken, Christian; Kadastik, Mario The European Physical Journal C 2021 / art. 170, 9 p. : ill <https://doi.org/10.1140/epjc/s10052-021-08950-y>

Evolutionary algorithms for hyperparameter optimization in machine learning for application in high energy physics : [preprint]

Tani, Laurits; Rand, Diana; Veelken, Christian; Kadastik, Mario arXiv.org 2021 / 11 p. : ill <https://doi.org/10.48550/arXiv.2011.04434>

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

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](#)

Explainability-based trust algorithm for electricity price forecasting models
Heistrene, Leena; Machlev, Ram; Perl, Michael; **Belikov, Juri;** Baimel, Dmitry; Levy, Kfir; Mannor, Shie; Levron, Yoash Energy and AI
2023 / art 100259, 18 p <https://doi.org/10.1016/j.egyai.2023.100259> [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>

Explaining the decisions of power quality disturbance classifiers using latent space features
Machlev, Ram; Perl, Michael; Caciularu, Avi; **Belikov, Juri;** Levy, Kfir Yehuda; Levron, Yoash International journal of electrical power &
energy systems 2023 / art. 108949 <https://doi.org/10.1016/j.ijepes.2023.108949> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal](#)
[metrics at WOS](#) [Article at WOS](#)

Extracting ontologies from relational databases
Astrova, Irina Proceedings of the 22nd IASTED International Conference on Databases and Applications (DBA) 2004 / p. 56-61
<https://spiral.imperial.ac.uk/bitstream/10044/1/52670/7/FAIA291-0043.pdf>

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>

FedBranched : leveraging federated learning for anomaly-aware load forecasting in energy networks
Manzoor, Habib Ullah; Khan, Ahsan Raza; Flynn, David; **Alam, Muhammad Mahtab;** Akram, Muhammad; Imran, Muhammad Ali;
Zoha, Ahmed Sensors 2023 / art. 3570 <https://doi.org/10.3390/s23073570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics](#)
[at WOS](#) [Article at WOS](#)

Forecasting of absolute dynamic topography by utilizing machinelearning with synergy of satellite altimetry data
Delpeche-Ellmann, Nicole Camille; **Rajabi-Kiasari, Saeed;** **Ellmann, Artu** 13th Coastal Altimetry Workshop & Coastal Altimetry
Training, 6-10 February 2023, Universidad de Cádiz, Spain : abstract 2023 / p. 42
<https://www.coastalaltimetry.org/NikalWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3>

Forecasting of energy consumption and production using recurrent neural networks
Shabbir, Noman; **Kütt, Lauri;** Jawad, Muhammad; **Iqbal, Muhammad Naveed;** **Ghahfarokhi, Payam Shams** Advances in
electrical and electronic engineering 2020 / p. 190–197 <https://doi.org/10.15598/aeet.v18i3.3597> [Journal metrics at Scopus](#) [Article at](#)
[Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Forecasting sea level maxima using machine learning models in the Baltic Sea
Rajabi-Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille;** **Ellmann, Artu** International Liège Colloquium 2024 : Ocean Extremes
2024 / 1 p https://gher-uliège.github.io/liege-colloquium-2024/abstracts/2024-01-26_12:01:45_IP_193.40.250.130.pdf

Forecasting short term wind energy generation using machine learning
Shabbir, Noman; **Ahmadiyahangar, Roya;** **Kütt, Lauri;** **Iqbal, Muhammad Naveed;** **Rosin, Argo** 2019 IEEE 60th International
Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference
proceedings 2019 / 4 p <https://doi.org/10.1109/RTUCON48111.2019.8982365>

Fractional order sliding mode controller based on supervised machine learning techniques for speed control of PMSM
Zahraoui, Younes; **Zaihidee, Fardila M.;** Kermadi, Mostefa; Mekhilef, Saad; Mubin, Marizan; Tang, Jing Rui; Zaihidee, Ezrinda M.
Mathematics 2023 / art. 1457 <https://doi.org/10.3390/math11061457> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)
[WOS](#) [Article at WOS](#)

From near real-time urban data to an explainable city-scale model to help reduce the Urban Heat Island (UHI) effect
Eslamirad, Nasim; **De Luca, Francesco;** **Ben Yahia, Sadok;** **Lylykangas, Kimmo Sakari** Journal of Physics: Conference Series
2023 / art. 092012, p. 1-6 : ill <https://doi.org/10.1088/1742-6596/2600/9/092012> [Conference proceedings at Scopus](#) [Article at Scopus](#)

From sensors to Dempster-Shafer theory and back : the axiom of ambiguous sensor correctness and its applications
Draheim, Dirk; **Tammet, Tanel** Database and Expert Systems Applications : 31st International Conference, DEXA 2020, Bratislava,
Slovakia, September 14–17, 2020 : Proceedings, Part I 2020 / p. 3-19 https://doi.org/10.1007/978-3-030-59003-1_1 [Conference](#)

[proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Fully automated tuning of microwave coaxial cavity filters = Mikrolaine-koaksiaalfiltrite täisautomaatne häälestamine

Sekhri, Even 2024 https://www.ester.ee/record=b5685094*est <https://digikogu.taltech.ee/et/Item/38784e65-568e-4dd9-ae9-bb5eec5a2a9c>
<https://doi.org/10.23658/taltech.20/2024>

GC and other methods for full and partial context coverage

Raun, Kristo; Torim, Ants; Ben Yahia, Sadok Procedia computer science 2021 / p. 746–755

<https://doi.org/10.1016/j.procs.2021.08.077> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Generalized association rule mining – dimensional unsupervised learning = Üldistatud assotsiatsioonireeglite kaevandamine – dimensiooniline juhendamata õpe

Kaushik, Minakshi 2024 https://www.ester.ee/record=b5652676*est <https://digikogu.taltech.ee/et/Item/b3fc493d-b245-43e2-bd37-87d749cca028> <https://doi.org/10.23658/taltech.6/2024>

Generation of unmeasured loading levels data for condition monitoring of induction machine using machine learning

Billah, Md Masum; Saberi, Alireza Nemat; Hemeida, Ahmed; Martin, Florian; Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman; Mukherjee, Victor; Belahcen, Anouar IEEE transactions on magnetics 2023 <https://doi.org/10.1109/TMAG.2023.3312267>

GK : Implementing full first order default logic for commonsense reasoning (system description)

Tammet, Tanel; Draheim, Dirk; Järv, Priit Automated Reasoning : 11th International Joint Conference, IJCAR 2022, Haifa, Israel, August 8–10, 2022 : proceedings 2022 / p. 300-309 https://doi.org/10.1007/978-3-031-10769-6_18 [Conference Proceedings at Scopus](#)
[Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Health index prediction of overhead transmission lines : a machine learning approach

Manninen, Henri; Kilter, Jako; Landsberg, Mart IEEE transactions on power delivery 2022 / p. 50-58

<https://doi.org/10.1109/TPWRD.2021.3052721> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Higher education teachers' perceptions about teaching and learning related qualities of telepresence robots

Leoste, Janika; Virkus, Sirje; Talisainen, Aleksei ROBOT2022 : Fifth Iberian Robotics Conference : Advances in Robotics. Vol. 1 2022 / p. 526-537 https://doi.org/10.1007/978-3-031-21065-5_43 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

How domain engineering can help to raise adoption rates of artificial intelligence in healthcare

Bertl, Markus; Klementi, Toomas; Piho, Gunnar; Ross, Peeter; Draheim, Dirk Information Integration and Web Intelligence, 25th International Conference, iiWAS 2023, Denpasar, Bali, Indonesia, December 4–6, 2023 : proceedings 2023 / p. 490-504

https://doi.org/10.1007/978-3-031-48316-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Hybrid feature selection models for machine learning based botnet detection in IoT networks

Guerra Manzanares, Alejandro; Bahsi, Hayretdin; Nömm, Sven 2019 International Conference on Cyberworlds : CW 2019 : 2-4 October 2019, Kyoto, Japan : proceedings 2019 / p. 324-327 : ill <https://doi.org/10.1109/CW.2019.00059>

The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Shabbir, Noman 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. <https://doi.org/10.1109/BEC56180.2022.9935614>

Impact-driven discretization of numerical factors : case of two- and three-partitioning

Kaushik, Minakshi; Sharma, Rahul; Arakkal Peious, Sijo; Draheim, Dirk Big Data Analytics. BDA 2021 : 9th International Conference, BDA 2021, Virtual Event, December 15-18, 2021 : proceedings 2021 / p. 244–260 https://doi.org/10.1007/978-3-030-93620-4_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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>

Improved fault classification and localization in power transmission networks using vae-generated synthetic data and machine learning algorithms

Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang Machines 2023 / art. 963 <https://doi.org/10.3390/machines11100963> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving Arabic text to image mapping using a robust machine learning technique

Zakraoui, Jezia; Elloumi, Samir; Alja'am, Jihad Mohamad; Ben Yahia, Sadok IEEE Access 2019 / p. 18772 - 18782 : ill

<https://doi.org/10.1109/ACCESS.2019.2896713> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving response time of task and Adaboost classifiers in mobile fog computing

Darbanian, Elham; Rahbari, Dadmehr; Ghanizadeh, Roghayeh; Nickray, Mohsen Jordanian journal of computers and information

technology 2020 / p. 345–360 <https://www.ejmanager.com/mnstemps/71/71-1590557276.pdf?t=1608030630>

In silico machine learning methods in drug development

Dobchev, Dimitar Atanasov; Pillai, Girinath Gopinathan; **Karelson, Mati** Current topics in medicinal chemistry 2014 / p. 1913-1922

In-depth feature selection and ranking for automated detection of mobile malware

Guerra Manzanares, Alejandro; Nömm, Sven; Bahsi, Hayretdin Proceedings of the 5th International Conference on Information Systems Security and Privacy : ICISPP 2019 : February 23-25, 2019, Prague, Czech Republic. Vol. 1 2019 / p. 274-283 : ill <https://doi.org/10.5220/0007349602740283>

In-depth feature selection for the statistical machine learning-based botnet detection in IoT networks

Kalakoti, Rajesh; Nömm, Sven; Bahsi, Hayretdin IEEE Access 2022 / p. 94518-94535
<https://doi.org/10.1109/ACCESS.2022.3204001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industrial robot training in the simulation using the machine learning agent

Nutonen, Karle; Kuts, Vladimir; Otto, Tauno Procedia computer science 2023 / p. 446-455
<https://doi.org/10.1016/j.procs.2022.12.240> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Industrial robot training in the simulation using the machine learning agents

Nutonen, Karle 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 13-14 : ill https://www.ester.ee/record=b5504019*est

Infotehnoloogia. Sõnastik. Osa 31, Intellektitehnika. Tehisõpe

Hanson, Vello; Tavast, Arvi; **Kalja, Ahto; Vöhandu, Leo** 1999 https://www.ester.ee/record=b1323638*est

Interpretable machine learning for heterogeneous treatment effect estimators with Double ML: a case of access to credit for SMEs

Medianovskyi, Kyrilo; Malakauskas, Aidan; Lakstutiene, Ausrine; **Ben Yahia, Sadok** Procedia computer science 2023 / p. 2163-2172 : ill <https://doi.org/10.1016/j.procs.2023.10.207> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Interpretable machine learning for SME financial distress prediction

Medianovskyi, Kyrilo; Malakauskas, Aidan; Lakstutiene, Ausrine; **Ben Yahia, Sadok** 12th International Conference on Information Systems and Advanced Technologies "ICISAT 2022" : Intelligent Information, Data Science and Decision Support System 2023 / p. 454 - 464 https://doi.org/10.1007/978-3-031-25344-7_42 [Article collection metrics at Scopus](#) [Article at Scopus](#)

IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks

Raja, Hadi Ashraf 2023 <https://doi.org/10.23658/taltech.20/2023> <https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcd536aba5>
https://www.ester.ee/record=b5558656*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>

Jüri Vain: tehisintellekt on palju enam kui masinõpe

Vain, Jüri err.ee 2023 [Jüri Vain: tehisintellekt on palju enam kui masinõpe](https://www.ester.ee/record=b5558656*est)

Kas vabadust ja tehisaru saab ühendada?

Lepasaar, Tiit postimees.ee 2023 / Lk. 12 [Kas vabadust ja tehisaru saab ühendada?](https://www.ester.ee/record=b5558656*est)

Knowledge based decision making in mechanical workshops

Kruuser, Kaarel; Riives, Jüri; Kiolein, Indrek Proceedings of the 32nd International DAAAM Virtual Symposium "Intelligent Manufacturing & Automation" 2021 / p. 0514-0521 <https://doi.org/10.2507/32nd.daaam.proceedings.074>

Koju naasnud eestlane: ma ei ole vist kunagi millegi nii ajakohasega tegelenud [Võrguväljaanne]

arileht.delfi.ee 2022 [Koju naasnud eestlane: ma ei ole vist kunagi millegi nii ajakohasega tegelenud](https://www.ester.ee/record=b5558656*est)

Kolm professorit versus ChatGPT

Russak, Ülo Harju Elu 2023 / Lk. 3 <https://dea.digar.ee/article/harjuelu/2023/04/14/4.1> [Kolm professorit versus ChatGPT](#)

Large-scale commonsense knowledge for default logic reasoning

Järv, Priit; Tammet, Tanel; Verrev, Martin; Draheim, Dirk SN Computer Science 2023 / art. 550 <https://doi.org/10.1007/s42979-023-01963-2> [Journal metrics at Scopus](#) [Article at Scopus](#)

Latest research trends in gait analysis using wearable sensors and machine learning: A systematic review

Saboor, Abdul; Kask, Triin; Kuusik, Alar; Alam, Muhammad Mahtab; Le Moullec, Yannick IEEE Access 2020 / art. 3022818, p. 167830–167864 <https://doi.org/10.1109/ACCESS.2020.3022818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Learning from few cyber-attacks : addressing the class imbalance problem in machine learning-based intrusion detection in software-defined networking

Mirsadeghi, Seyed Mohammad Hadi; Bahsi, Hayretidin; Vaarandi, Risto; Inoubli, Wissem IEEE Access 2023 / p. 140428 - 140442 <https://doi.org/10.1109/ACCESS.2023.3341755> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Learning timed automata from interaction traces

Vain, Jüri; Kanter, Gert; Anier, Aivo IFAC-PapersOnLine 2019 / p. 205-210 <https://doi.org/10.1016/j.ifacol.2019.12.097> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Legal engineering of the anti-abuse rule in ATAD : architecture of the regression tree model

Künnapas, Kaido TalTech journal of European studies 2021 / p. 65-82 : ill https://www.ester.ee/record=b5290032*est

A legally relevant socio-technical language development for smart contracts = Arukate lepingute jaoks õiguslikult asjakohane sotsiaal-tehniline keelearendus

Dwivedi, Vimal Kumar 2022 <https://doi.org/10.23658/taltech.14/2022> <https://digikogu.taltech.ee/et/Item/f69ec767-0112-4342-9d4c-aceb37502c0b> https://www.ester.ee/record=b5497769*est

Leveraging the first line of defense : a study on the evolution and usage of android security permissions for enhanced android malware detection

Guerra Manzanares, Alejandro; Luckner, Marcin; **Bahsi, Hayretidin** Journal of Computer Virology and Hacking Techniques 2022 / 32 p. : ill <https://doi.org/10.1007/s11416-022-00432-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

LightGBM-based fault diagnosis of rotating machinery under changing working conditions using modified recursive feature elimination

Saberi, Alireza Nemat; Belahcen, Anouar; Sobra, Jan; Vaimann, Toomas IEEE Access 2022 / p. 81910-81925 <https://doi.org/10.1109/ACCESS.2022.3195939> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lowering uncertainty of cancer classification

Okun, O.; Priisalu, Helen Proceedings of IPMU'08 2008 / p. 543-550 : ill

Machine learning and deep learning techniques for residential load forecasting : a comparative analysis

Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2021 / p. 1-5 <https://doi.org/10.1109/RTUCON53541.2021.9711741>

A machine learning approach to achieving energy efficiency in relay-assisted LTE-a downlink system

Hassan, Hammad; Ahmed, Ifran; Ahmad, Rizwan; Khammari, Hedi; Bhatti, Ghulam; Ahmed, Waqas; Alam, Muhammad Mahtab Sensors 2019 / art. 3461, 25 p. : ill <https://doi.org/10.3390/s19163461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Machine learning assisted design of high-entropy alloys with ultra-high microhardness and unexpected low density

Zhao, Shunli; Jiang, Bin; Song, Kaikai; Liu, Xiaoming; Wang, Wenyu; Si, Dekun; Zhang, Jilei; Chen, Xiangyan; Zhou, Changshan; Liu, Pingping; Chen, Dong; Zhang, Zequn; Ramasamy, Parthiban; Tang, Junlei; Lv, Wenquan; Prashanth, Konda Gokuldoss; Sopa, Daniel; Eckert, Jürgen Materials & design 2024 / art. 112634 <https://doi.org/10.1016/j.matdes.2024.112634>

Machine learning based analysis of the upper limb freezing during handwriting in Parkinson's disease patients

Gorbatšov, Vassili; Valla, Elli; Nömm, Sven; Medijainen, Kadri; Taba, Pille; Toomela, Aaro IFAC-PapersOnLine 2022 / p. 91-95 <https://doi.org/10.1016/j.ifacol.2022.10.237> [Conference Proceeding metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Machine learning based emotion recognition in a digital learning environment

Ivleva, Natalja; Pentel, Avar; Dunajeva, Olga; Juštšenko, Valeria Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 1 2023 / p. 405-412 https://doi.org/10.1007/978-3-031-26876-2_38 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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 Forecasting of Absolute Dynamic Topography in the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 36 l. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Machine learning meets communication networks : current trends and future challenges

Ahmad, Ijaz; Shahabuddin, Shariar; Malik, Hassan; Leppänen, Teemu; Loven, Lauri; Anttonen, Antti; Sodhro, Ali Hassan; **Alam, Muhammad Mahtab**; Juntti, Markku; Ylä-Jääski, Antti IEEE Access 2020 / art. 9274307, p. 223418-223460
<https://doi.org/10.1109/ACCESS.2020.3041765> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Machine learning prediction for filling the interruptions of tide gauge data using a least square estimation method from nearest stations

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-030 p. 529 https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563508 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

Machine learning task as a diclique extracting task

Kuusik, Rein, inform.; Treier, Tarvo; Lind, Grete; Roosmann, Peeter 2009 Sixth International Conference on Fuzzy Systems and Knowledge Discovery : FSKD'09 : Tianjin, China, August 14-16, 2009. 1 2009 / p. 555-560 <https://ieeexplore.ieee.org/document/5358516>

Machine learning techniques for wireless-powered ambient backscatter communications : enabling intelligent iot networks in 6g era

Jameel, Furqan; **Sharma, Navuday**; Khan, Muhammad Awais; Khan, Imran; **Alam, Muhammad Mahtab**; Alam, Muhammad Mahtab; Mavromoustakis, Constandinos X. Internet of Things / 2020 https://doi.org/10.1007/978-3-030-44907-0_8 [Article collection metrics at Scopus](#) [Article at Scopus](#)

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 learning vs human learning

Henno, Jaak; Jaakkola, Hannu; Mäkelä, Jukka 2021 44th International Convention on Information, Communication and Electronic Technology (MIPRO), September 27 - October 1, 2021, Opatija, Croatia : proceedings 2021 / p. 542-548
<https://doi.org/10.23919/MIPRO52101.2021.9596771>

Machine learning-based detection and characterization of evolving threats in mobile and IoT Systems =

Masinõppepõhine arenevate ohtude tuvastamine ning kirjeldamine mobiilseadmete ja värkvõrkude jaoks
Guerra Manzanares, Alejandro 2022 <https://doi.org/10.23658/taltech.54/2022> <https://digikogu.taltech.ee/et/Item/f56ae778-e5a5-4147-a8e4-4833e08fa789> https://www.ester.ee/record=b5511898*est

Machine learning-based optimization design workflow based on obstruction angles for building facades

Sepulveda Luque, Abel; Eslamirad, Nasim; Seyed Salehi, Seyed Shahabaldin; Thalfeldt, Martin; De Luca, Francesco Regenerating the City Performance-driven and Simulation-based Computational Design for Sustainable Cities and Communities : proceedings of the 9th Regional International Symposium on Education and Research in Computer Aided Architectural Design in Europe, Tallinn University of Technology, 15-16 June 2023 2023 / p. 15-24 <https://digikogu.taltech.ee/et/Item/c29fc911-ec34-45da-afe6-bc1e8515e15d>

Machine learning-based prediction of specific energy consumption for cut-off grinding

Awan, Muhammad Rizwan; Rojas, Hernan A. Gonzalez; **Hameed, Saqib**; Riaz, Fahid; Hamid, Shahzaib; **Hussain, Abrar** Sensors 2022 / art. 7152 <https://doi.org/10.3390/s22197152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Malicious accounts detection from online social networks : a systematic review of literature

Ben Sassi, Imen; Ben Yahia, Sadok International Journal of General Systems 2021 / p. 741-814
<https://doi.org/10.1080/03081079.2021.1976773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist

Alvela, Ain ohtuleht.ee 2024 [Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist](#)

Measurement of Higgs boson properties in leptonic final states using ML-methods = Higgsi bosoni omaduste mõõtmine leptoneid sisaldavates kanalites kasutades masinõppe meetodeid

Tani, Laurits 2024 https://www.ester.ee/record=b5685160*est <https://doi.org/10.23658/taltech.25/2024> <https://digikogu.taltech.ee/et/Item/95677715-7be7-4696-a8a6-cdbe321761b2>

A method for assessment of the general circulation model quality using the K-means clustering algorithm : a case study with GETM v2.5

Raudsepp, Urmas; Maljutenko, Ilja Geoscientific model development 2022 / p. 535-551 <https://doi.org/10.5194/gmd-15-535-2022>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal methods at WOS](#) [Article at WOS](#)

Methodology for reconfigurable cobot-based quality control system for SME production

Moor, Madis; Sarkans, Martinš; Riives, Jüri; Otto, Tauno; Vano, Jaime Masia International Journal of Engineering and Technology (IJET) 2024 / 7 p

Microgrid oriented modeling of space heating system based on neural networks

Häring, Tobias; Kull, Tuule Mall; Ahmadiyahangar, Roya; Rosin, Argo; Thalfeldt, Martin; Biechl, Helmuth Journal of building engineering 2021 / art. 103150, 12 p. : ill <https://doi.org/10.1016/j.jobe.2021.103150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Miks masinõpe laialdast kasutust ei leia? [Võrguväljaanne]

toostusuudised.ee 2021 "[Miks masinõpe laialdast kasutust ei leia?](#)"

Mis toimub tehisintellekti „kapoti all“ ja miks me seda teadma peame? [Võrguväljaanne]

delfi.ee 2022 [Mis toimub tehisintellekti „kapoti all“ ja miks me seda teadma peame?](#)

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](#)

Mobiilse pahavara plahvatusele võib pakkuda leevendust masinõpe [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Mobiilse pahavara plahvatusele võib pakkuda leevendust masinõpe](#)

Model-free deep reinforcement learning-based current control for the dual-purpose dc-dc/ac power converter

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; Husev, Oleksandr; Matiushkin, Oleksandr; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604305>

Monotone systems approach in inductive learning

Roosmann, Peeter; Võhandu, Leo; Kuusik, Rein, inform.; Treier, Tarvo; Lind, Grete International journal of applied mathematics and informatics 2008 / 2, p. 47-56 : ill <https://data.understanding.com/download/ami-30.pdf>

An NB-IoT based edge-of-things framework for energy-efficient image transfer

Khan, Sikandar Muhammad Zulqarnain; Le Moullec, Yannick; Alam, Muhammad Mahtab Sensors 2021 / art. 5929, 21 p. : ill <https://doi.org/10.3390/s21175929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new efficient ALignment-driven Neural Network for mortality prediction from irregular multivariate time series data

Bignoumba, Nzamba; Mellouli, Nedra; Ben Yahia, Sadok Expert systems with applications 2024 / art. 122148 <http://doi.org/10.1016/j.eswa.2023.122148>

New solution for extracting inductive learning rules and their post-analysis

Kuusik, Rein, inform.; Lind, Grete IMMM 2011 : The First International Conference on Advances in Information Mining and Management : Barcelona, Spain, October 23-28, 2011 2011 / p. 121-126 http://personales.upv.es/thinkmind/dl/conferences/imm/imm_2011/imm_2011_6_30_20160.pdf

Non-Line of Sight detection based on 5G signal strength- and quality measurements and its impact on mobile positioning accuracy

Müürsepp, Ivo; Fjodorov, Aleksei; Alam, Muhammad Mahtab 2024 International Wireless Communications and Mobile Computing (IWCMC) 2024 / p. 256-261 <https://doi.org/10.1109/IWCMC61514.2024.10592586>

Noore IT-teadlase preemia pälvinu TalTechist uurib, miks masinõpe pole veel laialt levinud [Võrguväljaanne]

Kald, Indrek ituudised.ee 2022 "[Noore IT-teadlase preemia pälvinu TalTechist uurib, miks masinõpe pole veel laialt levinud](#)"

Novel real-time in-step gait anomaly detection algorithms

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Le Moullec, Yannick; Alam, Muhammad Mahtab techrxiv.org 2024 <https://doi.org/10.36227/techrxiv.171173236.66440239/v1>

A novel short receptive field based dilated causal convolutional network integrated with Bidirectional LSTM for short-term load forecasting

Javed, Umar; Ijaz, Khalid; Jawad, Muhammad; Khosa, Ikramullah; Ansari, Ejaz Ahmad; Zaidi, Khurram Shabih; Rafiq, Muhammad

Nadeem; **Shabbir, Noman** Expert systems with applications 2022 / art. 117689 <https://doi.org/10.1016/j.eswa.2022.117689> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical association rule mining : a systematic literature review

Kaushik, Minakshi; Sharma, Rahul; Fister, Iztok jr.; **Draheim, Dirk** arXiv.org 2023 / 50 p. : ill <https://doi.org/10.48550/arXiv.2307.00662>

An analysis of human perception of partitions of numerical factor domains

Kaushik, Minakshi; Sharma, Rahul; Shahin, Mahtab; Arakkal Peious, Sijo; Draheim, Dirk Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) ; Vol. 13635 LNCS 2022 / p. 137-144 https://doi.org/10.1007/978-3-031-21047-1_13 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

On explainable AI and abductive inference

Medianovskiy, Kyrilo; Pietarinen, Ahti-Veikko Philosophies 2022 / art. 35 <https://doi.org/10.3390/philosophies7020035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On statistical paradoxes and overcoming the impact of bias in expert systems : towards fair and trustworthy decision making

Sharma, Rahul SSRN 2023 / 37 p. : ill <https://doi.org/10.2139/ssrn.4506432>

On the application of active learning for efficient and effective botnet detection

Guerra Manzanares, Alejandro; Bahsi, Hayretidin Future Generation Computer Systems 2023 / p. 40-53 : ill <https://doi.org/10.1016/j.future.2022.10.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 relativity of time : implications and challenges of data drift on long-term effective android malware detection

Guerra Manzanares, Alejandro; Bahsi, Hayretidin Computers & Security 2022 / art. 102835, 15 p. : ill <https://doi.org/10.1016/j.cose.2022.102835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal Q-learning approach for tuning the cavity filters

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv 2019 20th International Conference on Research and Education in Mechatronics (REM) : [proceedings] 2019 / 5 p. : ill <https://doi.org/10.1109/REM.2019.8744118>

Optimal tuning of fractional order sliding mode controller for PMSM speed using neural network with reinforcement learning

Zahraoui, Younes; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Alhamrouni, Ibrahim; Seyedmahmoudian, Mehdi; Stojcevski, Alex Energies 2023 / art. 4353 <https://doi.org/10.3390/en16114353> [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 metamodel for predicting damage and oil outflow in tanker collision accidents

Das, Tanmoy; Goerlandt, Floris; **Tabri, Kristjan** Proceedings of the institution of mechanical engineers, part M: journal of engineering for the maritime environment 2022 / 14 p. : ill <https://doi.org/10.1177/14750902211039659> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pattern based software architecture for predictive maintenance

Torim, Ants; Liiv, Innar; Ounoughi, Chahinez; Ben Yahia, Sadok Nordic Artificial Intelligence Research and Development : 4th Symposium of the Norwegian AI Society, NAIS 2022, Oslo, Norway, May 31 - June 1, 2022 : revised selected papers 2022 / p. 26-38 https://doi.org/10.1007/978-3-031-17030-0_3 [Conference proceedings at Scopus](#) [Article at Scopus](#)

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](#)

Peeter Ross: radioloogija areng on väga kiire ja liigub aina enam mitmemõõtmelise pildi esitamise suunas

Ross, Peeter med24.ee 2024 [Peeter Ross: radioloogija areng on väga kiire ja liigub aina enam mitmemõõtmelise pildi esitamise suunas](#)

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](#)

Pitfalls of machine learning methods in smart grids : a legal perspective

Antonov, Alexander; Häring, Tobias; Korötko, Tarmo; Rosin, Argo; Kerikmäe, Tanel; Biechl, Helmuth 2021 International Symposium on Computer Science and Intelligent Controls : (ISCSIC 2021), 12-14 November 2021, Rome, Italy : proceedings 2021 / p. 248-256 <https://doi.org/10.1109/ISCSIC54682.2021.00053>

Predicting psychiatric diseases using autoAI : a performance analysis based on health insurance billing data

Bertl, Markus; Ross, Peeter; Draheim, Dirk Database and Expert Systems Applications : 32nd International Conference, DEXA 2021, Virtual Event, September 27-30, 2021 : proceedings. Part I 2021 / p. 104-111 https://doi.org/10.1007/978-3-030-86472-9_9 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Predictive analytics beyond time series : predicting series of events extracted from time series data

Mishra, Sambheet; Bordin, Chiara; Taharaguchi, Kota; Purkayastha, Adri Wind Energy 2022 / p. 1596-1609 <https://doi.org/10.1002/we.2760> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Predictive systems using machine learning tools to forecast adverse events during medical stays = Ennustavad süsteemid, mis kasutavad masinõppe vahendeid kõrvalekallete prognoosimiseks haiglas viibimise ajal

Bignoumba, Nzamba 2024 <https://doi.org/10.23658/taltech.49/2024> https://www.ester.ee/record=b5700796*est <https://digikogu.taltech.ee/et/Item/19abb999-27b2-46a1-8fe6-1f1c43a5fe0d>

Preface

Jallouli, Rim; Tobji, Mohamed Anis Bach; Mcheick, Hamid; **Piho, Gunnar** Digital Economy. Emerging Technologies and Business Innovation : 6th International Conference on Digital Economy, ICDEc 2021, Tallinn, Estonia, July 15–17, 2021 : proceedings 2021 / p. v–vi <https://link.springer.com/content/pdf/bfm:978-3-030-92909-1/1> [Collection metrics at Scopus](#) [Article at Scopus](#)

Preliminary analysis of bearing current faults for predictive maintenance

Kudelina, Karolina; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p. : ill <https://doi.org/10.1109/IEMDC55163.2023.10238934>

Preliminary analysis of global parameters of induction machine for fault prediction in rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 243-248 : ill <https://doi.org/10.1109/PEMC51159.2022.9962922>

A primer on public safety communication in the context of terror attacks: the NATO SPS “COUNTER-TERROR” project

Alam, Muhammad Mahtab; Le Moullec, Yannick; Ahmad, Rizwan; Magarini, Maurizio; Reggiani, Luca Advanced Technologies for Security Applications : Proceedings of the NATO Science for Peace and Security 'Cluster Workshop on Advanced Technologies', 17-18 September 2019, Leuven, Belgium 2020 / p. 19-34 https://doi.org/10.1007/978-94-024-2021-0_3 [Article collection metrics at Scopus](#) [Article at Scopus](#)

A probabilistic synapse with strained MTJs for Spiking Neural Networks

Pagliari, Samuel Nascimento; Bhui, 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>

Professor Sven Nõmm AI toimumisest: auto kapoti alt leiad mootori ja tehisintellekti kapoti alt leiad masinõppe

Nõmm, Sven geenius.ee 2024 [Professor Sven Nõmm AI toimumisest: auto kapoti alt leiad mootori ja tehisintellekti kapoti alt leiad masinõppe](#)

Programmi RITA tegevuse 1 projekti „Masinõppe ja AI toega teenused“ lõpparuanne

Solvak, Mihkel; Vilo, Jaak; Reisberg, Sulev; Tamm, Sirlu; Oja, Marek; Ligi, Kadri; Unt, Taavi; Võrk, Andres; Leets, Peeter; **Tammet, Tanel; Vaarandi, Risto; Nõmm, Sven; Lepik, Toomas; Lember, Veiko; Nõmmik, Steven; Noordt, Colin Pascal van; Kerikmäe, Tanel** 2022 [Programmi RITA tegevuse 1 projekti „Masinõppe ja AI toega teenused“ lõpparuanne](#)

Radio spectrum and power optimization cognitive techniques for wireless body area networks = Raadiospektri ja võimsuse optimeerimise kognitiivsed tehnikad traadita kehavõrkudele

Ahmed, Tauseef 2017 <https://digi.lib.ttu.ee/i/?7677> https://www.ester.ee/record=b4677631*est

Real-time gait anomaly detection using SVM time series classification

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab; Ahmadov, Ulvi 2023 International Wireless Communications and Mobile Computing (IWCMC) 2023 / p. 1389-1394 <https://doi.org/10.1109/IWCMC58020.2023.10182666>

Relatedness and Product Complexity Meet Gravity Models of International Trade

Tiits, Marek; Kalvet, Tarmo; Ounoughi, Chahinez; Ben Yahia, Sadok Journal of open innovation: technology, market, and complexity 2024 / art. 100288 <https://doi.org/10.1016/j.joitmc.2024.100288>

Residential DC load forecasting using long short-term memory network (LSTM)

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr; Jalakas, Tanel; Martins, Joao 2023 IEEE 11th International Conference on Smart Energy Grid Engineering (SEGE) 2023 / p. 131-136
<https://doi.org/10.1109/SEGE59172.2023.10274596>

Residential energy management system to support increased renewable penetration = Taastuenergiaallikate kasutustihedust toetav energiahaldussüsteem

Shabbir, Noman 2022 <https://doi.org/10.23658/taltech.37/2022> <https://digikogu.taltech.ee/et/Item/2c178a6b-f918-4932-bd1b-48feb7fc7aa>
https://www.ester.ee/record=b5503996*est

Residential load forecasting for flexibility prediction using machine learning-based regression model

Ahmadiyahangar, Roya; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Martins, Joao 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 4 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783634>

Residential load forecasting using machine learning techniques : a comparative analysis

Shabbir, Noman 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 73-74 : ill https://www.ester.ee/record=b5457278*est

Residential load forecasting using recurrent neural networks

Shabbir, Noman; Ahmadiyahangar, Roya; Raja, Hadi Ashraf; Kütt, Lauri; Rosin, Argo 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 478-481 : ill
<https://doi.org/10.1109/CPE-POWERENG48600.2020.9161565>

A robust pathological voices recognition system based on DCNN and scattering transform

Souli, Sameh; Amam, Rimah; Ben Yahia, Sadok Applied acoustics 2021 / art. 107854 : ill
<https://doi.org/10.1016/j.apacoust.2020.107854> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Saving time and cost on the scheduling of fog-based IoT applications using deep reinforcement learning approach

Gazori, Pegah; Rahbari, Dadmehr; Nickray, Mohsen Future generation computer systems 2020 / p. 1098-1115
<https://doi.org/10.1016/j.future.2019.09.060>

Scalable and imbalance-resistant machine learning models for anti-money laundering : a two-layered approach

Tertychnyi, Pavlo; Slobozhan, Ivan; Ollikainen, Madis; Dumas, Marlon Enterprise Applications, Markets and Services in the Finance Industry : 10th International Workshop, FinanceCom 2020, Helsinki, Finland, August 18, 2020, Revised Selected Papers 2020 / p. 43-58 https://doi.org/10.1007/978-3-030-64466-6_3 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Sea surface circulation in the Baltic Sea : decomposed components and pattern recognition

Barzandeh, Amirhossein; Maljutenko, Ilja; Rikka, Sander; Lagemaa, Priidik; Männik, Aarne; Uiboupin, Rivo; Raudsepp, Urmas Scientific reports 2024 / art. 18649 <https://doi.org/10.1038/s41598-024-69463-8>

Semi-parametric approach to random forests for high-dimensional bayesian optimisation

Kuzmanovski, Vladimir; Hollmén, Jaakko Discovery Science : 25th International Conference, DS 2022, Montpellier, France, October 10–12, 2022, Proceedings 2022 / p. 418 - 428 https://doi.org/10.1007/978-3-031-18840-4_30 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Sentiment analysis for hotel reviews : a systematic literature review

Ameur, Asma; Hamdi, Sana; Ben Yahia, Sadok ACM Computing Survey 2023 / art. 51 <https://doi.org/10.1145/3605152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Short-term residential DC load forecasting using extreme gradient boost (XgBoost) algorithm

Shabbir, Noman; Husev, Oleksandr; Daniel, Kamran; Jawad, Muhammad; Rosin, Argo; Martins, Joao 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p
<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604392>

Short-term wind energy forecasting using deep learning-based predictive analytics

Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; Husev, Oleksandr CMC-Computers, Materials & Continua 2022 / p. 1017-1033 <https://doi.org/10.32604/cmc.2022.024576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Signal processing and machine learning techniques for predictive maintenance of rotor bars in induction machine

Kudelina, Karolina; Raja, Hadi Ashraf; Rjabtšikov, Viktor; Naseer, Muhammad Usman; Vaimann, Toomas; Kallaste, Ants 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 7 p. : ill
<https://doi.org/10.1109/EDPE58625.2023.10274030>

Signal spectrum-based machine learning approach for fault prediction and maintenance of electrical machines

Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Khang, Huynh Van
Energies 2022 / art. 9507 <https://doi.org/10.3390/en15249507> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simultaneous road edge and road surface markings detection using convolutional neural networks

Pihlak, Rene; Riid, Andri Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. 109-121 https://doi.org/10.1007/978-3-030-57672-1_9 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Smart elevator with unsupervised learning for visitor profiling and personalised destination prediction

Leier, Mairo; Riid, Andri; Alumäe, Tanel; Pihlak, Rene; Udal, Andres; Heinsar, Risto; Vainküla, Sven 2021 IEEE International Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) : Virtual Conference, 14-22 May 2021 : proceedings 2021 / p. 9-16 <https://doi.org/10.1109/CogSIMA51574.2021.9475921>

Social, legal, and technical considerations for machine learning and artificial intelligence systems in government

Dreyling III, Richard Michael; Jackson, Eric B.; Tammet, Tanel; Labanava, Alena; Pappel, Ingrid Proceedings of the 23rd International Conference on Enterprise Information Systems ; vol. 1 2021 / p. 701-708 <https://doi.org/10.5220/0010452907010708>

Status Detector for Fuzzing-Based Vulnerability Mining of IEC 61850 Protocol

Visky, Gabor; Lavrenovs, Arturs; Maennel, Olaf Manuel Proceeding of the 20th European Conference on Cyber Warfare and Security 2021 / p. 454-461 <https://doi.org/10.34190/EWS.21.007>

Study of bearing currents in induction machine : diagnostic possibilities, fault detection, and prediction

Kudelina, Karolina; Raja, Hadi Ashraf; Naseer, Muhammad Usman; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Electrical engineering 2024 / 14 p. : ill <https://doi.org/10.1007/s00202-024-02411-x>

A survey on AI and decision support systems in psychiatry – Uncovering a dilemma

Bertl, Markus; Ross, Peeter; Draheim, Dirk Expert Systems with Applications 2022 / art. 117464, 14 p. : ill <https://doi.org/10.1016/j.eswa.2022.117464> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey on artificial intelligence approaches in supporting frontline workers and decision makers for the COVID-19 pandemic

Rasheed, Jawad; Jamil, Akhtar; Draheim, Dirk Chaos, solitons & fractals 2020 / art. 110337, 17 p <https://doi.org/10.1016/j.chaos.2020.110337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Swarm-intelligence algorithms for mining numerical association rules : an exhaustive multi-aspect analysis of performance assessment data

Kaushik, Minakshi; Kõiva, Pilleriin; Sharma, Rahul; Fister, Iztok jr.; Draheim, Dirk SSRN 2023 / 37 p <https://ssrn.com/abstract=4399331>

Süvatehnoloogiate alternatiivsed arengutrajektoorid 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; Daneshlab, Masoud Computing 2023 / p. 1121-1139 <https://doi.org/10.1007/s00607-021-01004-x>

Synergy of in-situ and hydrodynamic modelling to develop machine learning strategies for dynamic vertical Reference for Maritime and Offshore Engineering

Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-3653>

Systematic AI support for decision-making in the healthcare sector : obstacles and success factors

Bertl, Markus; Ross, Peeter; Draheim, Dirk Health policy and technology 2023 / art. 100748, 8 p. : ill <https://doi.org/10.1016/j.hlpt.2023.100748> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A systematic literature review of AI-based digital decision support systems for post-traumatic stress disorder

Bertl, Markus; Metsallik, Janek; Ross, Peeter Frontiers in Psychiatry 2022 / art. 923613, 13 p. : ill <https://doi.org/10.3389/fpsy.2022.923613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TalTechi tarkvarateaduse instituut sai uue rakendusliku masinõppe professori

Kald, Indrek ituudised.ee 2023 [TalTechi tarkvarateaduse instituut sai uue rakendusliku masinõppe professori](https://www.ituudised.ee)

TalTechi teadlane uurib tehisintellekti potentsiaali. "Tulevikku silmas pidades ülioluline teema"

Kald, Indrek it uudised.ee 2022 [TalTechi teadlane uurib tehisintellekti potentsiaali. "Tulevikku silmas pidades ülioluline teema"](#)

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?](#)

Techno-economic analysis and energy forecasting study of domestic and commercial photovoltaic system installations in Estonia

Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Jawad, Muhammad; Allik, Alo; Husev, Oleksandr Energy 2022 / art. 124156 <https://doi.org/10.1016/j.energy.2022.124156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tehisintellekt - kas koll, millega hirmutada või hoopis suur sõber? [Võrguväljaanne]

Einama, Kaido postimees.ee 2022 / Lk. 9 [Tehisintellekt - kas koll, millega hirmutada või hoopis suur sõber?](#)

Tehisintellekt oskab näha Parkinsoni tõve algust inimese käekirjast

mu.ee 2023 [Tehisintellekt oskab näha Parkinsoni tõve algust inimese käekirjast](#) [Tehisaru aitab leida joonistustestidest Parkinsoni tõve varajasi jälgi](#)

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>

Tehismõistus õpetab masinaid

Tammet, Tanel Tehnikamaailm 2024 / lk. 60-65 : ill., fot., portr https://www.ester.ee/record=b1073050*est

The Compatibility between SDGs and the EU regulatory framework of AI

Cabral Costa Andrade, Aline; Solarte Vasquez, Maria Claudia Journal of ethics and legal technologies 2024 / p. 111-144 <https://jelt.padovauniversitypress.it/2024/1/6>

The gender wealth gap in Europe: Application of machine learning to predict individual-level wealth

Kukk, Merike; Meriküll, Jaanika; Rõõm, Tairi Review of income and wealth 2023 / p. 289 - 317 <https://doi.org/10.1111/roiw.12596> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Time-frame analysis of system calls behavior in machine learning-based mobile malware detection

Guerra Manzanares, Alejandro; Nõmm, Sven; Bahsi, Hayretdin 2019 International Conference on Cyber Security for Emerging Technologies : CSET 2019, Doha, Qatar, 27 October 2019 through 29 October 2019 2019 / art. 89049088 ; 8 p. : ill <https://doi.org/10.1109/CSET.2019.8904908>

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 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 generation of synthetic data sets for hybrid conflict modelling

Nõmm, Sven; Venables, Adrian Nicholas IFAC-Papers OnLine 2022 / p. 25-30 <https://doi.org/10.1016/j.ifacol.2022.10.226> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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 the integration of a post-hoc interpretation step into the machine learning workflow for IoT botnet detection

Guerra Manzanares, Alejandro; Nõmm, Sven; Bahsi, Hayretdin 18th IEEE International Conference on Machine Learning and Applications : ICMLA 2019, 16-19 December 2019, Boca Raton, Florida, USA : proceedings 2019 / p. 1162-1169 : ill <https://doi.org/10.1109/ICMLA.2019.00193>

Transforming fatigue assessment : smartphone-based system with digitized motor skill tests

Valla, Elli; Toose, Ain-Joonas; Nõmm, Sven; Toomela, Aaro International Journal of Medical Informatics 2023 / art. 105152
<https://doi.org/10.1016/j.ijmedinf.2023.105152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tremor-related feature engineering for machine learning based Parkinson's disease diagnostics

Valla, Elli; Nõmm, Sven; Medijainen, Kadri; Taba, Pille; Toomela, Aaro Biomedical signal processing and control 2022 / art. 103551
<https://doi.org/10.1016/j.bspc.2022.103551> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Türgist Eestise üksarvikut ehitama. „Tahan Eestile midagi tagasi anda“

Sildmets, Kadri Eesti Päevaleht 2023 <https://dea.digar.ee/article/lp/2023/07/28/15.1> [Türgist Eestise üksarvikut ehitama. „Tahan Eestile midagi tagasi anda“](#)

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](#)

Unsupervised fouling reconstruction in the pipe bend

lablonskyi, Denys; **Rasgado Moreno, Carlos Omar; Ratassepp, Madis;** Klami, Arto; Hæggström, Edward; Salmi, Ari 2023 IEEE International Ultrasonics Symposium (IUS) 2023 / 3 p <https://doi.org/10.1109/IUS51837.2023.10306373>

Using machine learning algorithms to form an automatic student's grade based on the sets of assessment questions

Shvets, Oleg; Kuzmina, Jelena; Murtazin, Kristina; Piho, Gunnar; Meeter, Martijn INTED2023 Proceedings 2023 / p. 1066-1074
<https://doi.org/10.21125/inted.2023.0319>

Using machine learning for automated assessment of misclassification of goods for fraud detection

Spitšakova, Margarita; Haav, Hele-Mai Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. 144-158 https://doi.org/10.1007/978-3-030-57672-1_12 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Using machine learning to develop customer insights from user-generated content

Mustak, Mekhail; Hallikainen, Heli; Laukkanen, Tommi; Ple, Loic; **Hollebeek, Linda Desiree;** Aleem, Majid Journal of retailing and consumer services 2024 / art. 104034 <https://doi.org/10.1016/j.jretconser.2024.104034>

Using MedBloT dataset to build effective machine learning-based IoT botnet detection systems

Guerra Manzanares, Alejandro; Medina-Galindo, Jorge; Bahsi, Hayretdin; Nõmm, Sven Information Systems Security and Privacy : 6th International Conference, ICISSP 2020, Valletta, Malta, February 25–27, 2020 : revised selected papers 2022 / p. 222–243 https://doi.org/10.1007/978-3-030-94900-6_11 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Using reinforcement learning to optimize the acceptance threshold of a credit scoring model

Herasymovych, Mykola; **Märka, Karl;** Lukason, Oliver Applied Soft Computing Journal 2019 / Art. 105697
<https://doi.org/10.1016/j.asoc.2019.105697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuring: Eesti majanduse veduriks võib saada kuus tehnoloogiavaldkonda

Bioneer.ee 2023 [Uuring: Eesti majanduse veduriks võib saada kuus tehnoloogiavaldkonda](#)

Uus meetod aitab mõista masinõppe hingeelu [Võrguväljaanne]

postimees.ee 2021 ["Uus meetod aitab mõista masinõppe hingeelu"](#)

UWB positioning integrity estimation using ranging residuals and ML augmented filtering

Tommingas, Mihkel; Alam, Muhammad Mahtab; Mürsepp, Ivo; Ulp, Sander IEEE Journal of indoor and seamless positioning and navigation 2024 / p. 205-218 <https://doi.org/10.1109/JSPIN.2024.3418296>

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>

Verification of machine learning modelling strategy in microgrid simulations

Häring, Tobias 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 79-80 : ill https://www.ester.ee/record=b5457278*est

Why not to trust big data : discussing statistical paradoxes

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Shahin, Mahtab; Vidyarthi, Ankit; Tiwari, Prayag; **Draheim, Dirk** Database Systems for Advanced Applications : DASFAA 2022, International Workshops BDMS, BDQM, GDMA, IWB, MATQTD, and PMBD, Virtual Event, April 11–14, 2022 : proceedings 2022 / p. 50-63 : ill https://doi.org/10.1007/978-3-031-11217-1_4 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Virtual inertia control of microgrids using deep reinforcement learning methods = Mikrovõrkude virtuaalse inertsi juhtimine sügava stiimulõppe meetoditega

Škiparev, Vjatseslav 2023 <https://doi.org/10.23658/taltech.37/2023> <https://digikogu.taltech.ee/et/Item/6d924a63-2390-4324-bf1c-00b24111605e> https://www.ester.ee/record=b5571224*est

Virtual reality meets intelligence in large scale architecture

Köse, Ahmet; Petlenkov, Eduard; Tepļakov, 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

Work-in-progress : exploring psychological and behavioural differences between university IT student segments formed based on dropout time and academic performance

Puudist, Eerik Sven; **Luberg, Ago**; Aus, Kati Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 2 2023 / p. 590-596 https://doi.org/10.1007/978-3-031-26190-9_62 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Ülikool mineviku ja tuleviku vahel: mida toob tehismõtlemine?

Tammet, Tanel digi.geenius.ee 2024 [Ülikool mineviku ja tuleviku vahel: mida toob tehismõtlemine? Mentē et manu](#)

XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Jawad, Muhammad; **Kilter, Jako**; Martins, Joao 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>

Yet another canonical nondeterministic automaton

Maarand, Hendrik; Tamm, Hellis Descriptive Complexity of Formal Systems : 24th IFIP WG 1.02 International Conference, DCFS 2022, Debrecen, Hungary, August 29-31, 2022, proceedings 2022 / p. 184-196 : ill https://doi.org/10.1007/978-3-031-13257-5_14 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

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

Искусственный интеллект может найти ранние признаки Паркинсона в рисунках

Valla, Elli nauka.err.ee 2024 [Искусственный интеллект может найти ранние признаки Паркинсона в рисунках](#)

Самообучение машин как задача выделения эталонов в образах : диссертация ... кандидата технических наук

Mullat, Jossif 1973 http://www.ester.ee/record=b2411155*est