

About the essence of intelligence – will artificial intelligence (ever) cover human intelligence?

Jaakkola, Hannu; Thalheim, Bernhard; **Henno, Jaak** Information Modelling and Knowledge Bases XXXIII 2021 / p. 19-43

<https://doi.org/10.3233/FAIA210475> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

Advances in Model and Data Engineering in the Digitalization Era : MEDI 2021 International Workshops : DETECT, SIAS, CSMML, BIOC, HEDA, Tallinn, Estonia, June 21–23, 2021 : proceedings

2021 <https://doi.org/10.1007/978-3-030-87657-9>

The age of AI in healthcare research : An analysis of projects submitted between 2020 and 2024 to the Estonian Committee on Bioethics and Human Research

Pevkur, Aive; Lubi, Kadi Journal of responsible technology 2025 / art. 100113 <https://doi.org/10.1016/j.jrt.2025.100113>

AI applications for power quality issues in distribution systems : A systematic review

Nabian Dehaghani, Mitra; Korōtko, Tarmo; Rosin, Argo IEEE Access 2025 / p. 18346-183652025

<https://doi.org/10.1109/ACCESS.2025.3533702>

AI-based surrogate model for the prediction of ship fuel consumption reflecting hydrometeorological conditions

Zhang, Mingyang; Tsoulakos, Nikolaos; **Kujala, Pentti Jouko Sakari**; Hirdaris, Spyros Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2024 ; vol. 9 2024 / OMAE2024-121992, V009T13A016 ; 11 pages

<https://doi.org/10.1115/OMAE2024-121992> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Analysis of driving public values of AI initiatives in government in Europe

Noordt, Colin van; Misuraca, Gianluca; **Mergel, Ines** Research Handbook on Public Management and Artificial Intelligence 2024 / p. 226-244 <https://doi.org/10.4337/9781802207347.00024> [Scopus](#)

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 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 / 4 p <https://doi.org/10.1109/IWED48848.2020.9069566>

Artificial Intelligence in the hierarchical control of ac, dc and hybrid ac/dc microgrids : A review

Gutiérrez-Escalona, J.; Roncero-Clemente, C.; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Blaabjerg, Frede IEEE Access 2024 / p. 157227-157246 <https://doi.org/10.1109/ACCESS.2024.3486382> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial intelligence tools for university fundraising 5.0 : a comprehensive analysis

Cherniavska, Olena; Belov, Alexandr; Shmygol, Nadiia; **Järvis, Marina**; Cherniavska, Oleksandra; Tsalko, Tetiana 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 intelligence use in e-Government services : a systematic interdisciplinary literature review

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 : 9th International Conference, FDSE 2022, Ho Chi Minh City, Vietnam, November 23-25, 2022 : proceedings 2022 / p. 547-559 https://doi.org/10.1007/978-981-19-8069-5_37 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Autonomous driving validation and verification using digital twins

Pikner, Heiko; **Malayjerd, Mohsen**; **Bellone, Mauro**; **Baykara, Baris Cem**; **Sell, Raivo** Proceedings of the 10th International Conference on Vehicle Technology and Intelligent Transport Systems - VEHTS ; Vol. 1 2024 / p. 204-211

<https://doi.org/10.5220/0012546400003702> [Conference Proceeding at Scopus](#) [Article at Scopus](#)

Autonomous mobile robots for production logistics: a process optimization model modification

Raamets, Tõnis; **Majak, Jüri**; **Karjust, Kristo**; **Mahmood, Kashif**; **Hermaste, Aigar** Proceedings of the Estonian Academy of Sciences 2024 / p. 134-141 : ill <https://doi.org/10.3176/proc.2024.2.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Body Area Networks. Smart IoT and Big Data for Intelligent Health : 15th EAI International Conference, BODYNETS 2020, Tallinn, Estonia, October 21, 2020 : proceedings
2020 <https://doi.org/10.1007/978-3-030-64991-3>

A comprehensive survey on revolutionizing connectivity through artificial intelligence-enabled digital twin network in 6G
Sheraz, Muhammad; Chuah, Teong Chee; Lee, Ying Loong; **Alam, Muhammad Mahtab**; Al-Habashna, Ala'a; Han, Zhu IEEE Access 2024 / p. 49184-49215 <https://doi.org/10.1109/ACCESS.2024.3384272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Contemporary innovation challenges – future of adoption artificial intelligence: case of Estonia

Gavrilova, Valeria; **Gurvits-Suits, Natalie Aleksandra** European integration studies 2020 / p. 217–225 <https://doi.org/10.5755/j01.eis.1.14.26143>

Cross-medialità odepórica: Dai blogs all'intelligenza artificiale

Calzati, Stefano Revista texto digital 2019 / p. 95-111 <https://doi.org/10.5007/1807-9288.2019v15n1p95>

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](#)

Cyber security risk analysis for a virtual assistant G2C digital service using FAIR model

Dreyling III, Richard Michael; Jackson, Eric Blake; Pappel, Ingrid 2021 Eighth International Conference on eDemocracy & eGovernment (ICEDEG) : Quito, Ecuador, 28-30 July 2021 / p. 33-40 <https://doi.org/10.1109/ICEDEG52154.2021.9530938>

Data protection chapter

Salumaa-Lepik, Kärt vt. ka Salumaa, Kärt; Nisu, Nele Digital development of the European Union : an interdisciplinary perspective 2023 / p. 145-168 https://doi.org/10.1007/978-3-031-27312-4_10 https://www.ester.ee/record=b5557935*est

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>

Decision support system for enforcement of child support obligations

Zborivskyi, Yurii-Antonii; Herts, Alla; Hnatchuk, Yelyzaveta; Martyniuk, Inna; **Boyarchuk, Artem** AdvAIT 2024 : 1st International Workshop on Advanced Applied Information Technologies, Khmelnytskyi, Ukraine/Zilina, Slovakia, December 5, 2024 : proceedings 2025 / p. 129-138 <https://ceur-ws.org/Vol-3899/paper12.pdf> [Scopus](#)

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

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>

Emerging technologies and space

Carlo, Antonio; Roux, Lucille Modelling and Simulation for Autonomous Systems : 8th International Conference, MESAS 2021, Virtual Event, October 13–14, 2021 2022 / p. 494-508 https://doi.org/10.1007/978-3-030-98260-7_32 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Energy-efficient autonomous systems - capacity building cross-border educational initiative

Kunicina, Nadezda; Plonis, Darius; Bruzgiene, Rasa; **Rassõlkin, Anton** 2025 IEEE 12th Workshop on Advances in Information, Electronic and Electrical Engineering (AIEEE) 2025 / 5 p <https://doi.org/10.1109/AIEEE66149.2025.11050877>

Engaging consumers through artificially intelligent technologies: Systematic review, conceptual model, and further research

Hollebeek, Linda Desiree; Menidjel, Choukri; Sarstedt, Marko; Jansson, Johan; Urbonavicius, Sigita Psychology and Marketing 2024 / art. 1326454, 18 p. : ill <https://doi.org/10.1002/mar.21957> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancement of the e-invoicing systems by increasing the efficiency of workflows via disruptive technologies

Gunaratne, Hiruni; Pappel, Ingrid Electronic Governance and Open Society: Challenges in Eurasia : 7th International Conference, EGOSE 2020, St. Petersburg, Russia, November 18-19, 2020 : proceedings 2020 / p. 60-74 https://doi.org/10.1007/978-3-030-67238-6_5 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Ethics and modern technologies : example of navigating children's rights in an AI-powered learning environment

Chochia, Archil; Sicat, Eden Grace Ninalga Digital development of the European Union : an interdisciplinary perspective 2023 / p. 129-141 : ill https://doi.org/10.1007/978-3-031-27312-4_9 https://www.ester.ee/record=b5557935*est

The EU AI act's alignment within the European Union's regulatory framework on artificial intelligence

Göksal, Saban Ibrahim; Solarte Vasquez, Maria Claudia; Chochia, Archil International and Comparative Law Review 2024 / p. 25 - 53 <https://doi.org/10.2478/iclr-2024-0017> <https://sciendo.com/article/10.2478/iclr-2024-0017> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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>

Existence of the Yule-Simpson effect : an experiment with continuous data

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Shahin, Mahtab; Vidyarthi, Ankit; **Draheim, Dirk** Proceedings of the Confluence 2022 : 12th International Conference on Cloud Computing, Data Science & Engineering, 27-28 January 2022 : Virtual 2022 / p. 351-355 <https://doi.org/10.1109/Confluence52989.2022.9734211>

Exploratory visual analytics : technical report of the NATO IST-141 Research Task Group

Varga, Margaret; Arkin, Ethem; Bivall, Petter; Camossi, Elena; **Kullman, Kaur;** Krilavičius, Tomas; Mandravickaitė, Justina; Lavigne, Valerie; Jayaram, Shivas; Panga, Marius; Liggett, Kristen; Martsinkevičius, Virginijus; Ray, Cyril; Winkelholz, Carsten; Acharya, Nikhil 2023 https://www.researchgate.net/publication/361220433_Exploratory_Visual_Analytics

An extended review on cyber vulnerabilities of AI technologies in space applications: Technological challenges and international governance of AI

Breda, Paola; Markova, Rada; Abdin, Adam; Mantı, Nebile Pelin; **Carlo, Antonio;** Jha, Devanshu Journal of space safety engineering 2023 / p. 447-458 : ill <https://doi.org/10.1016/j.jsse.2023.08.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Factors affecting the SMEs ability to enter the AI revolution

Koppel, Tarmo; Tšernikova, Olga You Have Been Replaced by AI : Abstracts of the 11th Annual Entrepreneurship and Innovation Conference (EUAS and Ülemiste City), Tallinn, October 5, 2023 2023 / p. 12 <https://conference.euas.eu/2023/wp-content/uploads/2024/02/ConferenceProceedings2023.pdf>

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](#)

Generating curricula: A human-centred perspective in the era of artificial intelligence

Rüütman, Tiia; Läänemets, Urve Science and Technology Education : Expectations and Experiences : Proceedings of the 6th International Baltic Symposium on Science and Technology Education (BalticSTE2025) 2025 / p. 180-196 <https://doi.org/10.33225/BalticSTE/2025.180>

Generative AI: Can rule of law be bargained for the sake of legal Tech efficiency?

Metin, Ebru; Kerikmäe, Tanel Generative AI, Contracts, Law and Design 2025 / p. 93-108 https://doi.org/10.1007/978-981-95-2058-9_6

Generative artificial intelligence (GenAI) revolution: A deep dive into GenAI adoption

Kumar, Aman; Shankar, Amit; **Hollebeek, Linda Desiree;** Behl, Abhishek; Lim, Weng Marc Journal of Business Research 2025 / art. 115160 <https://doi.org/10.1016/j.jbusres.2024.115160>

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](#)

The importance of cybersecurity frameworks to regulate emergent AI technologies for space applications

Carlo, Antonio; Manti, Nebile Pelin; Bintang, A. S. W. A. M.; Casamassima, Francesca; Boschetti, Nicolo; Breda, Paola; Rahloff, Tobias Journal of space safety engineering 2023 / p. 474-482 : ill <https://doi.org/10.1016/j.jsse.2023.08.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM

Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Electronics (Switzerland) 2024 / art. 1292
<https://doi.org/10.3390/electronics13071292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Kolmogorov-Arnold networks for algorithm design in battery energy storage system applications

Zequera, Rolando Antonio Gilbert; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants Energy Reports 2025 / p. 2664-2677
<https://doi.org/10.1016/j.egyr.2025.02.002>

Legal dilemmas of Estonian artificial intelligence strategy : in between of e-society and global race

Kerikmäe, Tanel; Pärn-Lee, Evelin AI & Society 2020 / 12 p <https://doi.org/10.1007/s00146-020-01009-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Managing complexity: the EU's contribution to artificial intelligence governance

Antonov, Alexander Revista CIDOB d'Afers Internacionals 2022 / p. 41-65 : ill <https://doi.org/10.24241/rcai.2022.131.2.41/en> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Method of preprocessing information for preparing a description of art objects using artificial intelligence

Voichur, Oleg; Hovorushchenko, Olha; **Boyarchuk, Artem**; Voichur, Yuri; Nester, Anatoliy IntelITSIS 2025 : 6th International Workshop on Intelligent Information Technologies and Systems of Information Security, Khmelnytskyi, Ukraine, 4 April 2025 : proceedings 2025 / p. 1-14 <https://ceur-ws.org/Vol-3963/paper1.pdf> [Scopus](#)

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>

MWFA model based synthetic data creation and utilization for the training of XGBoost based fault diagnostic algorithm of a squirrel cage induction motor

Asad, Bilal; Khan, Muhammad Amir; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants; Naseer, Muhammad Usman 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700453>

A neuro-fuzzy approach for broken rotor bar fault prediction in induction motors via current spectrum analysis

Raja, Hadi Ashraf; Vaimann, Toomas; Asad, Bilal; Kallaste, Ants; Sardar, Muhammad Usman 2025 IEEE Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : proceedings 2025 / 7 p
<https://doi.org/10.1109/SDEMPED53223.2025.11154194>

Neuro-fuzzy approach for fault prediction of mechanical bearing faults using vibration analysis

Shirokova, Veroonika; Kudelina, Karolina; Raja, Hadi Ashraf; Rjabtsikov, Viktor; Barashkova, Tatjana; Nutonen, Karle IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / p. 1-6 <https://doi.org/10.1109/IECON55916.2024.10905990> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Neuro-fuzzy framework for fault prediction in electrical machines via vibration analysis

Kudelina, Karolina; Raja, Hadi Ashraf Energies 2024 / art. 2818 <https://doi.org/10.3390/en17122818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Online learning-based coordination control of the interlinking converter in hybrid ac/dc microgrid

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Matiushkin, Oleksandr**; Romero-Cadaval, Enrique; Gonzalez-Romera, Eva; Martins, Joao 2025 IECON – 51st Annual Conference of the IEEE Industrial Electronics Society 2025 / 6 p
<https://doi.org/10.1109/IECON58223.2025.11221287>

Polyverif : an open-source environment for autonomous vehicle validation and verification research acceleration

Razdan, Rahul; Akbas, Mustafa Ilhan; **Sell, Raivo**; **Bellone, Mauro**; Menase, Mahesh; **Malayjerdi, Mohsen** IEEE Access 2023 / p. 28343-28354 <https://doi.org/10.1109/ACCESS.2023.3258681> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Power quality improvement in DG based distribution systems : A review

Nabian Dehaghani, Mitra; **Korötko, Tarmo**; **Rosin, Argo** Renewable and Sustainable Energy Reviews 2026 / art. 116184
<https://doi.org/10.1016/j.rser.2025.116184> <https://www.sciencedirect.com/science/article/pii/S1364032125008573>

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](#)

Preface

Bellatreche, Ladjel; Chernishev, George; Corral, Antonio; Ouchani, Samir; **Vain, Jüri** Advances in Model and Data Engineering in the Digitalization Era : MEDI 2021 International Workshops : DETECT, SIAS, CSMML, BIOC, HEDA, Tallinn, Estonia, June 21–23, 2021 : proceedings 2021 / p. v-vii <https://link.springer.com/content/pdf/bfm:978-3-030-87657-9/1?pdf=chapter%20toc> [Article 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>

Product Assurance in the Age of Artificial Intelligence

2025 <https://doi.org/10.4271/EPR2025011> <https://saemobilus.sae.org/reports/product-assurance-age-artificial-intelligence-epr2025011>

Public procurement in age of AI: challenges and opportunities

Iders-Bankovs, M.; Politika, V.; Pundure, J.; **Järvis, Marina**; Ziemelis, M. Engineering for rural development 2025 / p. 968-975
<https://doi.org/10.22616/ERDev.2025.24.TF198> <https://www.iitf.lbtu.lv/conference/index.php?topicID=8>

Responsible AI for cities : a case study of GeoAI in African informal settlements

Tonnarelli, Francesco; **Mora, Luca** Journal of urban technology 2025 / 27 p <https://doi.org/10.1080/10630732.2025.2450755>

Rethinking computer-aided architectural design (CAAD) - from generative algorithms and architectural intelligence to environmental design and ambient intelligence

Stojanovski, Todor; Zhang, Hui; Frid, Emma; Partanen, Jenni Vilhelmiina Computer-Aided Architectural Design. Design Imperatives: The Future is Now 19th International Conference, CAAD Futures 2021, Los Angeles, CA, USA, July 16-18, 2021, Selected Papers 2022 / p. 62-83 https://doi.org/10.1007/978-981-19-1280-1_5 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Rise of the machines? Customer engagement in automated service interactions

Hollebeek, Linda Desiree; Sprott, David E.; Brady, Michael K. Journal of Service Research 2021 / p. 3–8
<https://doi.org/10.1177/1094670520975110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The Role of AI Chatbots in Engineering Education: Experimental Findings and Implementation Strategies

Sell, Raivo; **Razdan, Rahul**; **Kase, Kart**; **Rüütmann, Tiia** International Journal of Engineering Pedagogy 2025 / p. 4-19
<https://doi.org/10.3991/ijep.v15i5.56681> <https://online-journals.org/index.php/i-jep/article/view/56681>

The role of artificial intelligence in the development of entrepreneurial initiatives among displaced persons: management of innovative social work practices

Bielialov, Taliat; Trebyk, L.; Zavrazhnyi, K.; Demydenko, T.; **Järvis, Marina**; Malovichko, O. Multidisciplinary science journal 2024 / art. e2024ss0224 <https://doi.org/10.31893/multiscience.2024ss0224> [Journal metrics at Scopus](#) [Article at Scopus](#)

Safeguarding the final frontier : analyzing the legal and technical challenges to mega-constellations

Jha, Devanshu; Manti, Nebile Pelin; **Carlo, Antonio**; Zarkan, Laetitia Cesari; Breda, Paola; Jha, Antara Journal of space safety engineering 2022 / p. 636-643 <https://doi.org/10.1016/j.jsse.2022.08.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions

Akbar, Siddique; **Vaimann, Toomas**; **Asad, Bilal**; **Kallaste, Ants**; **Sardar, Muhammad Usman**; **Kudelina, Karolina** Energies 2023 / Art. 6345 <https://doi.org/10.3390/en16176345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at](#)

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](#)

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](#)

The Main challenges and barriers to the successful "Smart Shipping"

Alop, Anatoli TransNav: International Journal on Marine Navigation and Safety of Sea Transportation 2019 / p. 521-528

<https://doi.org/10.12716/1001.13.03.05>

The role of artificial intelligence in kinetic targeting from the perspective of international humanitarian law

Roberts, Anastasia; **Venables, Adrian Nicholas** 2021 13th International Conference on Cyber Conflict : Going viral 2021 / art.

9468301, p. 43-57 <https://doi.org/10.23919/CyCon51939.2021.9468301> https://www.ester.ee/record=b5417211*est

Towards a systematic understanding on the challenges of procuring artificial intelligence in the public sector

McBride, Keegan; van Noordt, Colin Pascal; Misuraca, Gianluca; Hammerschmid, Gerhard osf.io 2021 / art. un649_v1 ; 24 p

<https://doi.org/10.31235/osf.io/un649>

Trends and challenges in intelligent condition monitoring of electrical machines using machine learning

Kudelina, Karolina; Vaimann, Toomas; Asad, Bilal; Rassõlkin, Anton; Kallaste, Ants; Demidova, Galina Applied sciences

2021 / art. 2761, 19 p. : ill <https://doi.org/10.3390/app11062761> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

Trustworthy AI as a future driver for competitiveness and social change in the EU

Antonov, Alexander; Kerikmäe, Tanel The EU in the 21st century : challenges and opportunities for the European integration

process 2020 / p. 135-154 https://doi.org/10.1007/978-3-030-38399-2_9

Unsettled technology areas in autonomous vehicle test and validation

Razdan, Rahul; Akbas, Mustafa İlhan; Sargolzaei, Arman; Alanser, Ala Jamil 2019 <https://doi.org/10.4271/EPR2019001> <https://rancs-lab.com/our-research-report-on-autonomous-vehicles-is-published-by-sae/>

The use of artificial intelligence in job seeking and competence development

Liutkevičius, Markko; Ben Yahia, Sadok Human factors, business management and society : proceedings of the 13th AHFE

International Conference on Human Factors, Business Management and Society, New York, USA, July 24-28, 2022 2022 / p. 128-136

<https://doi.org/10.54941/ahfe1002260>

Use of hydrogen and AI as an opportunities to increase energy autarky and create business more sustainable

Krzos, G.; Piwoni-Krzeszowska, E.; Kowalski, J.; **Prause, Gunnar Klaus** Procedia computer science 2023 / p. 3276-3285

<https://doi.org/10.1016/j.procs.2023.10.321> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

Mustak, Mekhail; Hallikainen, Heli; Laukkanen, Tommi; Ple, Loïc; **Hollebeek, Linda Desiree**; Aleem, Majid Journal of retailing and

consumer services 2024 / art. 104034, 14 p. : ill <https://doi.org/10.1016/j.jretconser.2024.104034> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

Using machine learning to improve brand management in an online environment

Iankovets, T.; **Järvis, Marina**; Fomin, O.; Chernobrovkina, S.; Shvets, S. International review of management and marketing 2025 / p.

118-125 <https://doi.org/10.32479/irmm.20649>

Who are you? Examining the multifaceted innovation roles of municipal governments in AI governance

Elbehairy, Farah; Mora, Luca; Soe, Ralf-Martin Technovation 2025 / art. 103303 <https://doi.org/10.1016/j.technovation.2025.103303>

Viewpoint : City Information Modelling (CIM) and Digitizing Urban Design Practices

Stojanovski, Todor; **Partanen, Jenni Vilhelmiina**; Samuels, Ivor; Sanders, Paul; Peters, Christopher Built Environment 2020 / p. 637-

646 <https://doi.org/10.2148/benv.46.4.637>

Virtual factory model development for AI-driven optimization in manufacturing

Raamets, Tõnis; Karjust, Kristo; Hermaste, Aigar; Kelpman, Karolin Proceedings of the Estonian Academy of Sciences 2025 / p. 228-233 <https://doi.org/10.3176/proc.2025.2.26>

Virtual risk assistant – a rule-based risk assessment tool based on large language models

Koppel, Tarmo; Tšernikova, Olga; Kalvet, Tarmo XXXV ISPIIM Innovation Conference : Local innovation ecosystems for global impact : proceedings 2024 / 11 p <https://finna.fi/Record/fikka.5694762> <https://www.ispim-research.com/>