

Advanced ICT solutions in a distance vocational education and training in the field of robotics

Pilat, Zbigniew; Arapi, Polycheni; Pappas, Nikos; Omieljanowicz, Mirosław; Prokopiuk, Norbert; Tamre, Mart The 16th International Conference "Mechatronic Systems and Materials" : MSM 2021 July 1, 2021 - July 2, 2021 : abstract book 2021 / p. 62-63
<https://vb.vgtu.lt/object/elaba:100810507/100810507.pdf>

AR/VR Digital Twin for simulation and data collection of robotic environments

Martins, João G.; Nutonen, Karle; Costa, Paulo; Kuts, Vladimir; Otto, Tauno; Sousa, Armando; Petry, Marcelo R. 2025 IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC) 2025 / 6 p
<https://doi.org/10.1109/ICARSC65809.2025.10970158>

The ARROWS project : robotic technologies for underwater archaeology

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

Covering an unknown area with an RFID-enabled robot swarm

Puusepp, Andres; Tammet, Tanel; Reilent, Enar Mechanical design and power engineering 2014 / p. 1157-1162
<https://doi.org/10.4028/www.scientific.net/AMM.490-491.1157> [Article at Scopus](#) [Article at WOS](#)

Development of process optimization model for autonomous mobile robot used in production logistics

Majak, Jüri; Karjust, Kristo; Mahmood, Kashif; Hermaste, Aigar; Raamets, Tõnis AIP conference proceedings 2024 / art. 020008 <https://doi.org/10.1063/5.0189299> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A Dual-arm robot for collaborative vision-based object classification

Zahavi, Ali; Najafi Haeri, Shahriar; Chamara Liyanage, Dhanushka; Tamre, Mart 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 <https://doi.org/10.1109/BEC49624.2020.9277067>

Editorial: Trustworthy AI for healthcare

Agafonov, Oleg; Babic, Aleksandar; Da Costa Sousa, Sonia Claudia; Alagaratnam, Sharmini Frontiers in Digital Health 2024 / art. 1427233 <https://doi.org/10.3389/fdgh.2024.1427233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EuroTeQ Project : first impressions and estimates

Vodovozov, Valery; Lehtla, Madis; Raud, Zoja 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p
<https://doi.org/10.1109/RTUCON56726.2022.9978799>

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

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

A flexible fin with bio-inspired stiffness profile and geometry

Salumäe, Taavi; Kruusmaa, Maarja Journal of bionic engineering 2011 / p. 418-428
<https://www.sciencedirect.com/science/article/pii/S1672652911600474>

Identification of reverse-action pairs using reversibility of actions

Gavšin, Juri; Kruusmaa, Maarja 2011 IEEE International Conference on Systems, Man, and Cybernetics (SMC) : Anchorage, AK, USA, October 9-12 2011 / p. 2555-2560 : ill <https://ieeexplore.ieee.org/document/6084061>

Implementation of the robot arm in the interactive learning environment

Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri 2014 International Conference on Signals and Electronic Systems (ICSES) : Poznań, Poland, 11-13 September 2014 2014 / [4] p. : ill

Inductive principles in engineering pedagogy on the example of remote labs

Sell, Raivo; Rüütmann, Tiia; Seiler, Sven Proceedings : 2013 2nd Experiment@International Conference (exp.at'13) : University of Coimbra, Coimbra, Portugal, 18-20 September, 2013 2013 / p. 68-71 : ill

Inductive teaching and learning in engineering pedagogy on the example of remote labs

Sell, Raivo; Rüütmann, Tiia International journal of engineering pedagogy 2014 / p. 12-15 : ill

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](#)

Interactive distance lab solution for robotic arm

Umbleja, Kadri; Jaanus, Martin; Kukk, Vello; Udal, Andres Joint International Conference on Engineering Education & International Conference on Information Technology ICEE/ICIT-2014 : June 2-6, 2014, Riga, Latvia 2014 / p. 339-348 : ill

Learning situations and remote labs in embedded system education

Sell, Raivo; Seiler, Sven Proceedings of 14th International Workshop on Research and Education in Mechatronics 2013 / p. 97-101 : ill https://www.researchgate.net/publication/256116848_Learning_Situations_and_Remote_Labs_in_Embedded_System_Education

Modelling of a biologically inspired robotic fish driven by compliant parts

EL Daou, Hadi; Salumäe, Taavi; Chambers, Lily D.; Megill, William M.; **Kruusmaa, Maarja** Bioinspiration & biomimetics 2014 / p. 1-11 : ill <https://doi.org/10.1088/1748-3182/9/1/016010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Online tools and remote labs for making ICT more attractive for students to prevent dropout

Sell, Raivo; Rüütman, Tiia; Murtazin, Kristina Proceedings of 2015 IEEE Global Engineering Education Conference (EDUCON) : 18-20 March 2015, Tallinn University of Technology (TUT), Tallinn, Estonia 2015 / p. 818-822 : ill <http://dx.doi.org/10.1109/EDUCON.2015.7096066>

Ontology merging using the weak unification of concepts

Kuusik, Norman; Vain, Jüri Big Data and Cognitive Computing 2024 / art. 98 <https://doi.org/10.3390/bdcc8090098> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Remote laboratory portal for robotic and embedded system experiments

Sell, Raivo International journal of online engineering 2013 / p. 23-26 : ill

Review of the present state, development trends, and advancements of power electronic converters used in robotics

Vodovozov, Valery; Raud, Zoja Energies 2025 / art. 2638 <https://doi.org/10.3390/en18102638>

Review of Trends in the Development of Power Rectifiers used in Robotics

Vodovozov, Valery; Raud, Zoja 2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) 2025 / 6 p. <https://doi.org/10.1109/IATMSI64286.2025.10984733>

Robot bus low-level control system transformation to an open-source solution

Pikner, Heiko; Sell, Raivo; Gu, Junyi Modern Materials and Manufacturing 2023 : Tallinn, Estonia, 2–4 May 2023 2024 / art. 020004 <https://doi.org/10.1063/5.0189277> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Robotics in the modern world of work - results from an empirical study regarding business ethics

Ludin, Daniela; Wellbrock, Wanja; **Müller, Erika; Gerstlberger, Wolfgang Dieter;** Gray, Lea; Salat, Sabrina Tehnički glasnik 2021 / p. 242-249 <https://doi.org/10.31803/tg-20210517201926>

A Scoping Review of Energy Consumption in Industrial Robotics

Muru, Johannes; Rassõlkin, Anton Machines 2025 / art. 542 <https://doi.org/10.3390/machines13070542>

Telepresence Robots and Inclusive Hybrid Learning : Bridging Gaps in Higher Education Classrooms

Kasuk, Tiina; Leoste, Janika; Meeran, Mohammad Tariq; Talisainen, Aleksei; Budagov, Fuad Robotics in Education : Proceedings of the RiE 2025 Conference 2025 / p. 498-507 https://link.springer.com/chapter/10.1007/978-3-031-98762-5_42 https://doi.org/10.1007/978-3-031-98762-5_42

The international cooperation on remote laboratories conducted with engineering didactics

Sell, Raivo; Rüütman, Tiia Proceedings of 2014 11th International Conference on Remote Engineering and Virtual Instrumentation (REV) : 26-28 February 2014 in Porto, Portugal 2014 / p. 187-190 : ill

The international cooperation on remote laboratories in the framework of engineering didactics

Sell, Raivo; Rüütman, Tiia International journal of engineering pedagogy 2015 / p. 8-11 <http://online-journals.org/index.php/ijep/article/view/3917>

USORA : unified solution of remote access in practical vocational engineering education

Seiler, Sven; **Sell, Raivo;** Köhn, Carsten; Böhrk, Vanessa 16th International Conference on Research and Education in Mechatronics REM2015 : Bochum, Germany, November 18-20, 2015 : proceedings 2015 / [6] p. : ill <http://dx.doi.org/10.1109/REM.2015.7380387>

A workflow for extended reality-based learning in engineering education

Kuts, Vladimir; Otto, Tauno; Boychuk, Rostyslav; Mahmood, Kashif; Pizzagalli, Simone Luca Proceedings of the Estonian Academy of Sciences 2025 / p. 103-108 <https://doi.org/10.3176/proc.2025.2.03>