

Aasta digiagentuur Tank : tangoks on vaja kaht osapoolt! [Võrguväljaanne]

turundajateil.ee 2022 [Aasta digiagentuur Tank: tangoks on vaja kaht osapoolt!](#)

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

Pilat, Zbigniew; Arapi, Polyxeni; 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>

An integrated platform for blended learning in engineering education

Makarova, Irina; Shubenkova, Ksenia; Tikhonov, Danila; **Pashkevich, Anton** Proceedings of the 9th International Conference on Computer Supported Education (CSEDU 2017) : April 21-23, 2017, in Porto, Portugal. Volume 2 2017 / p. 171-176 : ill
<http://dx.doi.org/10.5220/0006375601710176>

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>

Assessing interaction mechanics in extended reality for control engineering applications

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

Augmented reality interface for industrial robot control and teleoperation

Ordile, Laura; Bondarenko, Yevhen; Pizzagalli, Simone Luca; Kuts, Vladimir; Otto, Tauno EuroXR 2021: Proceedings of the Virtual EuroXR Conference 2021 / p. 15-19 <https://sarjweb.vtt.fi/pdf/technology/2021/T395.pdf> <https://doi.org/10.32040/2242-122X.2021.T395>

Avatud on uus virtuaal- ja liitreaalsuse tehnoloogiatele spetsialiseerunud keskus

Ääremaa, Andres Mente et Manu 2020 / lk. 47 : fot https://www.ester.ee/record=b1242496*est
<https://dea.digar.ee/article/AKmentetmanu/2020/09/0/18.1>

Development of a smart workstation by using AR technology

Värno, Kätlin; Otto, Tauno; Mahmood, Kashif; Kuts, Vladimir The application track, posters and demos of EuroVR : Proceedings of the 16th Annual EuroVR Conference - 2019 2019 / p. 19-22 : ill <https://doi.org/10.32040/2242-122X.2019.T357>
<https://www.vttresearch.com/sites/default/files/pdf/technology/2019/T357.pdf>

Development of an AR-based application for assembly assistance and servicing

Mahmood, Kashif; Pizzagalli, Simone Luca; Otto, Tauno; Symotiuk, Ivan Procedia CIRP 2024 / p. 638-643
<https://doi.org/10.1016/j.procir.2024.04.017> [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>

Ethical lawyer or moral computer - historical and contemporary discourse on incredulity between the human and a machine

Kerikmäe, Tanel; Mürsepp, Peeter; Särav, Sandra; Chochia, Archil Вісник Національної академії правових наук України 2017 / p. 27-42

Extended Reality for I5.0 : towards human centricity in human-robot interaction = Laiendatud reaalsus Tööstus 5.0 jaoks : inimesekeskse lähenemiseni inimese-roboti suhtluses

Pizzagalli, Simone Luca 2024 https://www.ester.ee/record=b5694235*est <https://digikogu.taltech.ee/et/Item/c2c7e80f-6a3c-49fc-8311-6b8f13e75270> <https://doi.org/10.23658/taltech.42/2024>

Extended reality interface for human robot interaction

Pizzagalli, Simone Luca 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. 27-28 : ill
https://www.ester.ee/record=b5570906*est

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

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

Haptic smart glove for augmented and virtual reality

Vu, Trieu Minh; Moezzi, Reza; Katushin, Nikita Sensor letters 2019 / p. 358-364 <https://doi.org/10.1166/sl.2019.4070>

Introducing augmented reality into education – opportunities for innovation and entrepreneurship

Witt, Emlyn David Qivitoq; Lill, Irene EUAS conference Innovation and Entrepreneurship : book of abstracts [Electronic resource] 2013 / p. 9

Mobile augmented reality techniques with gamification to enhance learnability for higher institute students of chemistry course

Al Ghawail, Entisar Alhadi; Ben Yahia, Sadok Journal of Applied Research in Higher Education 2024 / 28 p. : ill

<https://doi.org/10.1108/JARHE-11-2023-0508> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Motion tracking glove for augmented reality and virtual reality

Vu, Trieu Minh; Katushin, Nikita; Pumwa, John Paladyn, journal of behavioral robotics 2019 / p. 160–166 : ill

<https://doi.org/10.1515/pjbr-2019-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

Pneumatics-case : enhancing learning through augmented reality and digital twin technology

Boychuk, Rostyslav; Symotiuk, Ivan; Rõbnikov, Daniil; Kuts, Vladimir; Mahmood, Kashif; Pizzagalli, Simone Luca; Otto, Tauno EuroXR 2024 : proceedings of the 21st EuroXR international conference 2024 / p. 261-266 <https://doi.org/10.32040/2242-122X.2024.T432>

Relmage lab : bridging the gap between hands-on, virtual and remote control engineering laboratories using digital twins and extended reality

Alsaleh, Saleh Ragheb Saleh; Tepljakov, Aleksei; Köse, Ahmet; Belikov, Juri; Petlenkov, Eduard IEEE Access 2022 / p. 89924-889943 : ill

<https://doi.org/10.1109/ACCESS.2022.3199371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reimagining laboratory learning with digital twins and extended reality

Alsaleh, Saleh Ragheb Saleh 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 25-26 : ill

https://www.ester.ee/record=b5570906*est

ROS-based Augmented and Virtual Reality path planning interface for industrial robotic arms : a preliminary assessment

Pizzagalli, Simone Luca; Bondarenko, Yevhen; Kuts, Vladimir; O'Connell, Eoin; Murray, Niall; Otto, Tauno ICRSA '23:

Proceedings of the 2023 6th International Conference on Robot Systems and Applications 2024 / p. 38-48 : ill

<https://doi.org/10.1145/3655532.3655538>

Synchronizing physical factory and its digital twin through an IIoT middleware : a case study

Kuts, Vladimir; Modoni, Gianfranco E.; Otto, Tauno; Sacco, Marco; Tähemaa, Toivo; Bondarenko, Yevhen; Wang, Ruxin

Proceedings of the Estonian Academy of Sciences 2019 / p. 364–370 : ill http://www.kirj.ee/32660/?tpl=1061&c_tpl=1064

<https://doi.org/10.3176/proc.2019.4.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tehisintellekt, 5G, liitreaalsus, IoT – Eesti puidutööstus viiakse ELi raha toel uuele tasemele

Kald, Indrek ituudised.ee 2022 [Tehisintellekt, 5G, liitreaalsus, IoT – Eesti puidutööstus viiakse ELi raha toel uuele tasemele](#)

Teleoperation of the industrial robot : augmented reality application

Chung, Xue Er Shamaine; Qiao, Yuansong; Kuts, Vladimir; Henry, John; McNevin, Ken; Murray, Niall MMSys '22: Proceedings of the

13th ACM Multimedia Systems Conference 2022 / p. 299–303 <https://doi.org/10.1145/3524273.3532901>

The application track, posters and demos of EuroVR : Proceedings of the 16th Annual EuroVR Conference - 2019

2019 <https://doi.org/10.32040/2242-122X.2019.T357> <https://www.vtresearch.com/sites/default/files/pdf/technology/2019/T357.pdf>

The concept of using AR and VR technologies in the vocational training system in robotics and automation

Falkowski, Piotr; Pilat, Zbigniew; Arapi, Polyxeni; Tamre, Mart; Dulencin, Peter; Homza, Jozef Robotics in education : methodologies

and technologies 2021 / p. 318-325 https://doi.org/10.1007/978-3-030-67411-3_29

Universal XR framework architecture based on open-source XR tools

Bondarenko, Yevhen; Kuts, Vladimir; Pizzagalli, Simone Luca; Nutonen, Karle; Murray, Niall; O'Connell, Eoin XR and

metaverse : proceedings of the 8th international XR-metaverse conference 2023, Las Vegas, USA 2024 / p. 87-98

https://doi.org/10.1007/978-3-031-50559-1_7 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Using augmented reality to strengthen consumer/brand relationships: The case of luxury brands

Arya, Vikas; Sethi, Deepa; Hollebeek, Linda Desiree Journal of Consumer Behaviour 2024 / 17 p <https://doi.org/10.1002/cb.2419>

5G-lahendused muudavad tootmise nutikamaks

Eesti Päevaleht 2021 / Lk. 22

Virtuaalreaalsus võib peagi väikeettevõtetele kättesaadavamaks muutuda

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Virtuaalreaalsus võib peagi väikeettevõtetele kättesaadavamaks muutuda](#)

VR/MR supporting the future of defensive cyber operations

Kullman, Kaur; Ryan, Matt; Trossbach, Lee IFAC-PapersOnLine 2019 / p. 181-186 : ill <https://doi.org/10.1016/j.ifacol.2019.12.093>