

A phantom study for the validation of a surgical navigation system based on real-time segmentation and registration methods

Maris, B.; Ristolainen, Asko; Li, Lin; Gavšin, Juri International journal of computer assisted radiology and surgery 2013 / p. 381-382 : ill

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>

Advancement in production engineering education through Virtual Learning Factory Toolkit concept

Mahmood, Kashif; Otto, Tauno; Kuts, Vladimir Proceedings of the Estonian Academy of Sciences 2021 / p. 374-382 : ill
<https://doi.org/10.3176/proc.2021.4.02> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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>

Analysis and 3D visualisation of microstructured materials on custom-built virtual reality environment = Virtuaalkeskonna arendamine mikrostruktuursete materjalide analüüsiks ja kolmemõõtmeliseks visualiseerimiseks
Pastorelli, Emiliano 2015 <https://digi.lib.ttu.ee/i/?2533> https://www.ester.ee/record=b4483740*est

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>

Argipäeva virtuaalne reaalsus : essee

Tammet, Tanel Eesti Ekspress 1995 / 20. jaan., lk. B4

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>

Challenges for SMEs entering into the virtual organization partner network

Kangilaski, Taivo Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [III] 2010 / p. 352-357 : ill

Collaborative framework for virtual organisation

Polyantchikov, Igor; Ševtšenko, Eduard Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [III] 2010 / p. 398-403 : ill

Complex materials analysis and visualization through virtual reality environments

Pastorelli, Emiliano; Hermann, Heiko Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 99-102 : ill

Design of a unified framework for creating XR experiences for research and academia

Bondarenko, Yevhen 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. 11-12 : ill https://www.ester.ee/record=b5504019*est

Development of the modelling tool for the analysis of the production process and its entities for SME

Karaulova, Tatjana 2004

Development of virtual learning factory toolkit for production engineering education

Mahmood, Kashif; Otto, Tauno; Kuts, Vladimir; Terkaj, Walter; Urgo, Marcello; Haidegger, Geza IOP conference series : materials science and engineering 2021 / art. 012039, 8 p <https://doi.org/10.1088/1757-899X/1140/1/012039>

Digital Twin : concept of hybrid programming for industrial robots - use case

Kuts, Vladimir; Sarkans, Martinš; Otto, Tauno; Tähemaa, Toivo; Bondarenko, Yevhen ASME 2019 International Mechanical Engineering Congress and Exposition : conference proceedings 2019 / Paper No: IMECE2019-10583, V02BT02A005; 8 pages
<https://doi.org/10.1115/IMECE2019-10583>

Digital Twin : industrial robot kinematic model integration to the virtual reality environment

Kuts, Vladimir; Cherezova, Natalia; Sarkans, Martinš; Otto, Tauno Journal of machine engineering 2020 / p. 53-64
<https://doi.org/10.36897/jme/120182> Journal metrics at Scopus Article at Scopus

Digital twin as human-robot interaction validation tool

Kuts, Vladimir 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. 27-28 : ill https://www.ester.ee/record=b5291755*est

Digital twin as industrial robots manipulation validation tool

Kuts, Vladimir; Marvel, Jeremy A.; Aksu, Murat; Pizzagalli, Simone Luca; Sarkans, Martinš; Bondarenko, Yevhen; Otto, Tauno Robotics 2022 / art. 113 <https://doi.org/10.3390/robotics11050113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digital twin based synchronised control and simulation of the industrial robotic cell using virtual reality

Kuts, Vladimir; Otto, Tauno; Tähemaa, Toivo; Bondarenko, Yevhen Journal of machine engineering 2019 / p. 128–145 : ill <https://doi.org/10.5604/01.3001.0013.0464> [Journal metrics at Scopus](#) [Article at Scopus](#)

Digital twin for FANUC robots: Industrial robot programming and simulation using virtual reality

Garg, Gaurav; **Kuts, Vladimir; Anbarjafari, Gholamreza** Sustainability (Switzerland) 2021 / Art. 10336 <https://doi.org/10.3390/su131810336> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digital twins for cities and regions : global challenges, regional initiatives, European approaches

Kern, Leyla; **Dembski, Fabian; Wössner, Uwe** EU Conference on modelling for policy support, 22-26 November 2021, Brussels : Abstracts 2021 / p. 51-54 https://knowledge4policy.ec.europa.eu/sites/default/files/2021_EU_CONF_MOD_Booklet_of_abstracts.pdf

Digitalization of engineering education : from e-learning to smart education

Makarova, Irina; Shubenkova, Ksenia; **Antov, Dago; Pashkevich, Anton** Smart Industry & Smart Education : proceedings of the 15th International Conference on Remote Engineering and Virtual Instrumentation 2019 / p. 32–41 https://doi.org/10.1007/978-3-319-95678-7_4 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Dr Marco Sacco : tehisreaalsus on järgmise kümnendi peategelane

Einama, Kaido Mente et Manu 2017 / lk. 47-48 https://artiklid.elnet.ee/record=b2830879*est

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

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard 2019 27th Mediterranean Conference on Control and Automation (MED) 2019 / p. 57-62 : ill <https://doi.org/10.1109/MED.2019.8798521>

Enabling the teaching factory leveraging a virtual reality system based on the digital twin

Kuts, Vladimir; Otto, Tauno; Caldarola, Enrico G.; Modoni, Gianfranco E.; Sacco, Marco The Industrial Track of EuroVR 2018: Proceedings of the 15th Annual EuroVR Conference 2018 / p. 26–31 : ill <https://www.vtt.fi/inf/pdf/technology/2018/T339.pdf>

Enhancing cyber defense situational awareness using 3D visualizations

Kullman, Kaur; Cowley, Jennifer; Ben-Ashe, Noam 13th International Conference on Cyber Warfare and Security (ICWS 2018), Washington, DC, USA, 8 – 9 March 2018 2018 / p. 369-378 <http://toc.proceedings.com/38822webtoc.pdf>

Exploiting factory telemetry to support virtual reality simulation in robotics cell

Kuts, Vladimir; Modoni, Gianfranco E.; Terkaj, Walter; Tähemaa, Toivo; Sacco, Marco; Otto, Tauno Augmented Reality, Virtual Reality, and Computer Graphics : 4th International Conference, AVR 2017, Ugento, Italy, June 12–15, 2017 : proceedings. Part I 2017 / p. 212-221 : ill https://doi.org/10.1007/978-3-319-60922-5_16 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

Frontiers of interstanding : [proceedings of the 4th Baltic Workshop on Creative Media : Royal Institute of Technology, Stockholm, Sweden, August 24-25, 2000]

2000 https://www.ester.ee/record=b1419978*est

Game programming course - creative design and development

Henno, Jaak; Jaakkola, Hannu MIPRO 2008 : 31th International Convention on Information and Communication Technology, Electronics and Microelectronics : May 26-30, Opatija, Croatia : proceedings. IV 2008 / p. 86-88 https://www.researchgate.net/publication/26584724_Game_Programming_Course_-_Creative_Design_and_Development

Gert Jervan: TI õpib meie pealt ja meie jagatud infost

Jervan, Gert Õpetajate Leht 2025 / lk. 6-7 <https://dea.digar.ee/article/opetajateleht/2025/05/13/7.1> <https://www.opleht.ee/2025/05/gert-jervan-ti-opib-meie-pealt-ja-meie-jagatud-infost/>

Haptic glove for augmented and virtual reality

Vu, Trieu Minh 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 19-20 : ill
https://www.ester.ee/record=b5183874*est

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>

ICON : the journal of the international committee for the history of technology

2024 <https://www.icohtec.org/wp-content/uploads/2025/01/ICON-29-2-1-FM.pdf>

ICT and business alignment in virtual organization

Kangilaski, Taivo 6th IEEE International Conference on Industrial Informatics (INDIN) : July 13-16, 2008 Daejeon, Korea 2008 / p. 1251-1256 <https://ieeexplore.ieee.org/document/4618295>

Ida-Tallinna Keskhaigla arendab taastusravi koos Tehnikaülikooliga [Võrguväljaanne]

Liiviste, Priit pealinn.ee 2021 ["Ida-Tallinna Keskhaigla arendab taastusravi koos Tehnikaülikooliga "](https://www.ester.ee/record=b5183874*est)

Identity theft and societal acceptability of electronic identity in Europe and in the United States – survey questionnaire

Tiits, Marek; Kalvet, Tarmo 2022 <https://www.ibs.ee/publikatsioonid/identity-theft-and-societal-acceptability-of-electronic-identity-in-europe-and-in-the-united-states/>

Imagining futures of digital work: exploring paradoxes through speculative fiction

Winter Kurchik, Madison 2025 <https://doi.org/10.4324/9781032690483>

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

Industrial collaborative robot digital twin integration and control using robot operating system

Diachenko, Danyl; Partyshev, Andriy; Pizzagalli, Simone Luca; Bondarenko, Yevhen; Otto, Tauno; Kuts, Vladimir Journal of Machine Engineering 2022 / p. 57 - 67 <https://doi.org/10.36897/jme/148110> [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

Infotehnoloogia. Sõnastik. Osa 37, Virtuaalreaalsus

Hanson, Vello; Tavast, Arvi; **Kalja, Ahto; Võhandu, Leo** 2003 https://www.ester.ee/record=b1763036*est

Instructional objectives and implementation of the course "Game Development and Virtual Environments"

Henno, Jaak; Jaakkola, Hannu MIPRO 2006 : 26th International Convention : Rijeka, Croatia : proceedings. Vol. IV 2006 / p. 178-180

Intellectual property rights in user-driven innovation processes

Hoffmann, Thomas; **Prause, Gunnar Klaus** 13th International Entrepreneurship Forum (13th IEF) Conference "Entrepreneurship and Development : The Idea of Inclusive Opportunity Creation" : 31 July - 2 August, 2014, Bogota, Colombia : conference proceedings 2014 / p. 366-384

Intelligent virtual environments with assessment of user experiences

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard Artificial Intelligence and Soft Computing : 20th International Conference, ICAISC 2021, Virtual Event, June 21–23, 2021 : proceedings, Part I 2021 / p. 463–474 : ill https://doi.org/10.1007/978-3-030-87986-0_41
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Interactive whiteboards in extended reality for advanced control system design

Tepljakov, Aleksei 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 1-5
<https://doi.org/10.1109/TSP52935.2021.9522616>

Interactive virtual world models for crisis preparedness - better than the real thing?

Havlik, Denis; Engelbach, Wolf; Erlich, Marc; **Meriste, Merik** The International Emergency Management Society -TIEMS- : Evolving Threats and Vulnerability Landscape : New Challenges for the Emergency Management : proceedings of the International Emergency Management Society (TIEMS), 22nd TIEMS Annual Conference, Rome, Italy, September 30 - October 2, 2015 2015 / [11] p
<http://publica.fraunhofer.de/documents/N-374904.html>

Internet-based testability-driven test generation in the virtual environment MOSCITO

Schneider, Andre; Diener, Karl-Heinz; Elst, G.; **Ivask, Eero; Raik, Jaan; Ubar, Raimund-Johannes** International Federation for Information Processing IFIP : International Workshop on IP-Based SoC Design 2002 : proceedings : Grenoble, October 30-31, 2002

Interstanding - a new challenge to humanity

Võhandu, Leo Frontiers of interstanding : [proceedings of the 4th Baltic Workshop on Creative Media : Royal Institute of Technology, Stockholm, Sweden, August 24-25, 2000] 2000 / p. 7-10 https://www.ester.ee/record=b1419978*est

Katsu virtuaalmaailma oma kätega: puutekindad, mille idee pärineb Eestist [Võrguväljaanne]

Einama, Kaido postimees.ee 2022 [Katsu virtuaalmaailma oma kätega: puutekindad, mille idee pärineb Eestist](#)

Knowledge-driven based performance analysis of robotic manufacturing cell for design improvement

Kangru, Tavo; Mahmood, Kashif; Otto, Tauno; Moor, Madis; **Riives, Jüri** ASME 2020 : International Mechanical Engineering Congress and Exposition, November 16–19, 2020 : Virtual, Online : proceedings 2020 / Paper No: IMECE2020-23541, V006T06A032 ; 8 p <https://doi.org/10.1115/IMECE2020-23541>

Kus häda kõige suurem, seal robot kõige lähem

Kuts, Vladimir Trialoog 2025 <https://trialoog.taltech.ee/kus-hada-koige-suurem-seal-robot-koige-lahem/>

Layout planning and analysis of a Flexible Manufacturing System based on 3D Simulation and Virtual Reality

Mahmood, Kashif; Otto, Tauno; Chakraborty, A. Procedia CIRP 2023 / p. 201-206 <https://doi.org/10.1016/j.procir.2023.08.036>
[Conference proceedings at Scopus](#) [Article at Scopus](#)

Learning business through simulation games. Survey among students who played developed games

Õun, Kandela; Mägi, Merle; **Noppel, Airi** Perspectives on computer gaming in higher education 2016 / p. 89-102 : ill

Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 1

2023 <https://doi.org/10.1007/978-3-031-26876-2>

Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 2

2023 <https://doi.org/10.1007/978-3-031-26190-9>

Light at the end of the tunnel : Visitors' virtual reality (versus in-person) attraction site tour-related behavioral intentions during and post-COVID-19

Itani, Omar S.; **Hollebeek, Linda Desiree** Tourism Management 2021 / art. 104290 <https://doi.org/10.1016/j.tourman.2021.104290>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A live virtual simulator for teaching cybersecurity to information technology students

Ernits, Margus; Kikkas, Kaido Learning and Collaboration Technologies : Third International Conference, LCT 2016, held as part of HCI International 2016, Toronto, ON, Canada, July 17-22, 2016 : proceedings 2016 / p. 474-486 : ill https://doi.org/10.1007/978-3-319-39483-1_43 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Loodavas kaasamiskeskuses saab täna ja homme katsetada virtuaalseid töövahendeid [Võrguväljaanne]

Liiviste, Priit pealinn.ee 2022 ["Loodavas kaasamiskeskuses saab täna ja homme katsetada virtuaalseid töövahendeid"](#)

Magistritöö : silmast silma koosolekul antakse loba rohkem andeks

Harrik, Airika novaator.err.ee 2022 / video [Magistritöö: silmast silma koosolekul antakse loba rohkem andeks](#)

Modelling terrorism expansion in a virtual world

Tepandi, Jaak; Vassiljev, Stanislav East-West-Vision : International Workshop & Project Festival Computer Vision, Computer Graphics, New Media, Graz, September 12-13, 2002 : proceedings 2002 / p. 109-114 : ill

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](#)

Multitier digital twin approach for agile supply chain management

Ševtšenko, Eduard; Mahmood, Kashif; Karaulova, Tatjana; Raji, Oluwole Ibrahim ASME 2020 : International Mechanical Engineering Congress and Exposition, November 16–19, 2020 : Virtual, Online : proceedings 2020 / Paper No: IMECE2020-23760, 10 p <https://doi.org/10.1115/IMECE2020-23760>

Necessity for e-manufacturing model in tooling cluster and its essence

Lõun, Kaia; Riives, Jaan; Otto, Tauno Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 345-350 : ill https://www.researchgate.net/publication/290349485_Necessity_for_e-manufacturing_model_in_tooling_cluster_and_its_essence

Novel digital twin development methodology for the robot cell connectivity in a smart industry environment = Uudne digitaalsete kaksikute arendusmetoodika robottootmisrakkude sidustamiseks targa tööstuse keskkonnas

Kuts, Vladimir 2019 <https://digi.lib.ttu.ee/i/?12252> Tehnikaülikooli doktoritöö tõhustas robotijuhtimist virtuaalkaksikuga

Operator impressions of 3D visualizations for cybersecurity analysts

Kullman, Kaur; Ben-Asher, Noam; Sample, Char Abstracts and conference materials for the 18th European Conference on Cyber Warfare and Security, University of Coimbra Portugal, 4-5th July 2019 / p. 31-32 <https://www.academic-conferences.org/conferences/eccws/eccws-future-and-past/>

Operator impressions of 3D visualizations for cybersecurity analysts

Kullman, Kaur; Ben-Asher, Noam; Sample, Char Proceedings of the 18th European Conference on Cyber Warfare and Security, University of Coimbra Portugal, 4-5th July 2019 / p. 257–266 https://www.researchgate.net/publication/334226184_Operator_Impressions_of_3D_Visualizations_for_Cybersecurity_Analysts

Otse Tallinnast: oma ala tipud kompavad TalTech'i seminaril paralleelreaalsuse piire [Võrguväljaanne]

geenius.ee 2021 ["Otse Tallinnast: oma ala tipud kompavad TalTech'i seminaril paralleelreaalsuse piire"](https://geenius.ee/otse-tallinnast-oma-ala-tipud-kompavad-taltech-i-seminaril-paralleelreaalsuse-piire)

A pilot feasibility study on the use of virtual reality simulation training for parent-teacher consultations to enhance self-efficacy in pre-service teachers

Parish, Karen; Wamatsch, Rahel; Torgersen, Leanne N.S.; Lugo, Ricardo Gregorio Journal of Teacher Education and Educators 2024 / p. 29-47 <https://dergipark.org.tr/en/pub/jtee/issue/84503/1441602#article-authors-list>

Professor Tanel Kerikmäe: mis on keelatud päriselus, peaks olema keelatud ka virtuaalmaailmas [Võrguväljaanne]

Kerikmäe, Tanel digi.geenius.ee 2022 [Professor Tanel Kerikmäe: mis on keelatud päriselus, peaks olema keelatud ka virtuaalmaailmas](https://digi.geenius.ee/professor-tanel-kerikmae-mis-on-keelatud-paeriselus-peak-olema-keelatud-ka-virtuaalmaailmas)

The real chance offered by virtual world : people with disabilities, Internet and changing society

Kikkas, Kaido Frontiers of interstanding : [proceedings of the 4th Baltic Workshop on Creative Media : Royal Institute of Technology, Stockholm, Sweden, August 24-25, 2000] 2000 / p. 47-58 : ill https://www.ester.ee/record=b1419978*est

Realization of the principles of virtuality in the tooling industry

Papstel, Jüri; Saks, Alo Virtual manufacturing : XII Workshop on supervising and diagnostics of machining systems : Karpacz, Poland, March 18-23, 2001 2001 / p. 92-101 : ill

Real-time localization and visualization of a sound source for virtual reality application

Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei 2017 25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) : Split, Croatia, September 21-23, 2017 2017 / p 219-224 : ill <https://doi.org/10.23919/SOFTCOM.2017.8115577> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Relmagine 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](#)

Resilient expansion planning of virtual power plant with an integrated energy system considering reliability criteria of lines and towers

Mishra, Sambeet; Bordin, Chiara; Wu, Qiuwei; **Manninen, Henri** International journal of energy research 2022 / p. 13726-13751 <https://doi.org/10.1002/er.8093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robotexi kohta valmis mõju-uuring [Võrguväljaanne]

tehnikaamaailm.ee 2022 [Robotexi kohta valmis mõju-uuring](https://tehnikaamaailm.ee/robotexi-kohta-valmis-moju-uuring)

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>

Scalable medical viewer for virtual reality environments

Ricciardi, Francesco; **Pastorelli, Emiliano;** De Paolis, Lucio Tommaso; **Herrmann, Heiko** Augmented and Virtual Reality : second International Conference, AVR 2015, Lecce, Italy, August 31 - September 3, 2015 : proceedings 2015 / p. 233-243 : ill https://doi.org/10.1007/978-3-319-22888-4_17 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Second Life õppe- ja teaduskeskkonnana

Tammemäe, Kalle A & A 2008 / lk. 27-34 : ill https://artiklid.elnet.ee/record=b1022654*est

A small-scale, low-budget semi-immersive virtual environment for scientific visualization and research

Pastorelli, Emiliano; Herrmann, Heiko 2013 International Conference on Virtual and Augmented Reality in Education 2013 / p. 14-22 <https://doi.org/10.1016/j.procs.2013.11.003> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

SMARTMUSEUM : cultural content recommendation system for mobile users

Kuusik, Alar; Roche, Sylvain; Weis, Frederic Proceedings Fourth International Conference on Computer Sciences and Convergence Information Technology : ICCIT 2009 : Seoul, Korea, 24-26 November 2009 2009 / p. 447-452 <https://ieeexplore.ieee.org/document/5367887>

Spatial representation of self-driving vehicle for virtual entity of digital twin

Rassõlkin, Anton; Maksimkins, Pavels; Stupans, Andrejs; Rjabtšikov, Viktor; Šenfels, Armands; Kuts, Vladimir Computer 2024 / p. 58-66 <https://doi.org/10.1109/MC.2023.3319108>

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](#)

Tallinna Tehnikaülikooli uus labor mõjutab digitaalsete kaksikute võidukäiku Eesti tööstuses

Ehitusuudised : [ajalehe Äripäev lisa] 2022 / Lk. 58 [Tallinna Tehnikaülikooli uus labor mõjutab digitaalsete kaksikute võidukäiku Eesti tööstuses https://www.ester.ee/record=b2050444*est](https://www.ester.ee/record=b2050444*est)

TalTechi professor: metaversum ei tohi muutuda eikellegimaaks [Võrguväljaanne]

Kerikmäe, Tanel postimees.ee 2022 [TalTechi professor: metaversum ei tohi muutuda eikellegimaaks](#)

TalTechi õiguse instituudi direktor: tekkestaadiumis metaversum vajab regulatsiooni [Võrguväljaanne]

Kald, Indrek ituudised.ee 2022 [TalTechi õiguse instituudi direktor: tekkestaadiumis metaversum vajab regulatsiooni](#)

Teaching for virtual work

Henno, Jaak; Jaakkola, Hannu; Mäkeläinen, Jukka 2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO) : May 20 – 24, 2019, Opatija, Croatia : proceedings 2019 / p. 818-826 : ill <https://doi.org/10.23919/MIPRO.2019.8756778>

Teaduspargi inkubaatori firmad leiavad raha ja palkavad töötajaid

Tartu Postimees 2021 / Lk. 4 <https://dea.digar.ee/article/tartupostimees/2021/02/04/7.9>

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

Towards a synesthesia laboratory : real-time localization and Visualization of a sound source for virtual reality applications

Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei; Draheim, Dirk; Petlenkov, Eduard; Vassiljeva, Kristina Journal of communications software and systems 2018 / p. 112–120 : ill <https://doi.org/10.24138/jcomss.v14i1.410> [Journal metrics at Scopus](#) [Article at Scopus](#)

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 assessment of behavioral patterns in a virtual reality environment

Köse, Ahmet; Tepljakov, Aleksei; Abel, Mihkel; Petlenkov, Eduard Augmented Reality, Virtual Reality, and Computer Graphics : 6th International Conference, AVR 2019 : Santa Maria al Bagno, Italy, June 24–27, 2019 : Proceedings. Part I 2019 / p. 237–253 : ill https://doi.org/10.1007/978-3-030-25965-5_18 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Towards assisting interactive reality : interactive reality for education, data analysis and industry

Köse, Ahmet; Tepljakov, Aleksei; Petlenkov, Eduard Augmented Reality, Virtual Reality, and Computer Graphics : 5th International Conference : AVR 2018, Otranto, Italy, June 24–27, 2018 : proceedings, Part I 2018 / p. 569-588 https://doi.org/10.1007/978-3-319-95282-6_41 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Towards modeling of finger motions in virtual reality environment

Nõmm, Sven; Toomela, Aaro; Kulikov, Jaroslav Augmented Reality, Virtual Reality, and Computer Graphics : 4th International Conference, AVR 2017, Ugento, Italy, June 12-15, 2017 : proceedings. Part I 2017 / p. 106-115 : ill https://doi.org/10.1007/978-3-319-60922-5_8 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Towards virtuality of manufacturing

Papstel, Jüri; Saks, Alo Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 86-88

TTÜ Mektory asub tegema koostööd ettevõtetega Nordic Houses ja Downtown Visuals

Mente et Manu 2016 / lk. 33 http://www.ttu.ee/public/u/ulikool/Tutvustus/ajaleht-mente-et-manu/MM_2016_06/index.html

TTÜ plaanib korraldada järgmise Kinect Olümpia globaalselt : [rahvusvahelisest virtuaalsest kergejõustikuvõistlusest TTÜs]

Nõges, Krõõt Mente et Manu 2011 / lk. 1 : fot https://www.ester.ee/record=b1242496*est

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](#)

Upper extremity movement evaluation using markerless motion capture system

Gavriljuk, Marietta; **Kuts, Vladimir**; Gapeyeva, Helena; **Otto, Tauno; Pizzagalli, Simone Luca** EuroVR 2020 Application, exhibition & demo track : proceedings of the virtual conference 2020 / p. 83-86 <https://doi.org/10.32040/2242-122X.2020.T381>

User-centred design in industrial collaborative automated systems

Pizzagalli, Simone Luca; Kuts, Vladimir; Otto, Tauno Proceedings of the Estonian Academy of Sciences 2021 / p. 436-443 : ill <https://doi.org/10.3176/proc.2021.4.10> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uudne digikaksik tõstab robotijuhtimise uuele tasemele

Horisont 2020 / lk. 4 : fot https://www.ester.ee/record=b1072243*est

Virtuaalmaailm ja küberkuriteod

Kukrus, Ants A & A 2002 / 3, lk. 39-45

Virtuaalne supermarket toetab elulähedast taastusravi

Mente et Manu 2019 / lk. 30-31 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_05_2019/mobile/index.html
https://www.ester.ee/record=b1242496*est

Virtuaalreaalsus pole enam ulme

Tamm, Kadri TööstusEST 2018 / lk. 38-41 http://www.ester.ee/record=b4481084*est <https://toostusest.ee/uudis/2018/05/22/virtuaalreaalsus-pole-enam-ulme/>

Virtuaalreaalsus võib peagi väikeettevõtetele kättesaadavamaks muutuda

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

Virtuaalreaalsus õpetab ja kontrollib: trauma järel ei pruugi inimene teha, mida ta arvab, et teeb [Võrguväljaanne]

Strandberg, Marek postimees.ee 2021

Virtuaalreaalsuse olevik ja tulevik

Otto, Tauno; Kuts, Vladimir Mente et Manu 2019 / lk. 26-27 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_05_2019/mobile/index.html https://www.ester.ee/record=b1242496*est

Virtuaalreaalsuse termineid

Hanson, Vello A & A 1998 / 2, lk. 41-44; 3, lk. 55-57

Virtuaaltehas võimaldab hinnata tootmise tõhusust juba enne reaalset ehituse algust [Võrguväljaanne]

digi.geenius.ee 2022 ["Virtuaaltehas võimaldab hinnata tootmise tõhusust juba enne reaalset ehituse algust"](#)

Virtual academy platform supported by a semantic knowledge base

Seiler, Sven; **Sell, Raivo** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 566-571 : ill

Virtual laboratories: engineers' training for automotive industry

Makarova, Irina; Boyko, Aleksey; Shubenkova, Ksenia; **Pashkevich, Anton**; Giniyatullin, Ilmur 17 International Conference on Emerging Learning Technologies and Applications, November 21-22, 2019 Stary Smokovec, The High Tatras Slovak Republic : proceedings 2019 / 7 p. : ill <https://doi.org/10.1109/ICETA48886.2019.9040074>

Virtual laboratory for research in dependable microelectronics

Diener, Karl-Heinz; Elst, G.; Gramatova, Elena; Kuzmich, W.; Peng, Z.; **Ubar, Raimund-Johannes** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 217-220 : ill

Virtual labs for higher education in industrial engineering

Terkaj, Walter; Kleine, Kari; **Kuts, Vladimir** Proceedings of the Estonian Academy of Sciences 2024 / p. 142–149
<https://doi.org/10.3176/proc.2024.2.07>

Virtual manufacturing in reality

Papstel, Jüri; Saks, Alo Intelligent Systems in Design and Manufacturing III 2000 / p. 123-134

Virtual product developing environment in customer-centered design approach

Randmaa, Merili; Sonk, Kaimo Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [I] 2010 / p. 72-77 : ill

Virtual reality digital twin interfaces in human-robot collaboration

Pizzagalli, Simone Luca 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. 23-24
https://www.ester.ee/record=b5457278*est

Virtual reality meets intelligence in large scale architecture

Köse, Ahmet; Petlenkov, Eduard; Tepljakov, 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 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Virtual reality simulators for inclusion and participation : broadening perspectives on accessible cities and public space

Kern, Leyla; **Dembski, Fabian**; Obst, Thomas; Bisinger, Laura; Falk, Benedict; Wössner, Uwe Mobility, Knowledge and Innovation Hubs in Urban and Regional Development : proceedings of REAL CORP 2022, 27th International Conference on Urban Development, Regional Planning and Information Society 2022 / p. 1025-1031 <https://doi.org/10.48494/REALCORP2022.2039>

Virtual reality through the customer journey : framework and propositions

Hollebeek, Linda Desiree; Clark, Moira K.; Andreassen, Tor W.; Sigurdsson, Valdimar; Smith, Dale L.G. Journal of retailing and consumer services 2020 / art. 102056 <https://doi.org/10.1016/j.jretconser.2020.102056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Virtual reality visualization for photogrammetric 3d reconstructions of cultural heritage

Herrmann, Heiko; Pastorelli, Emiliano Augmented and Virtual Reality First International Conference, AVR 2014, Lecce, Italy, September 17–20, 2014 : Revised Selected Papers 2014 / p. 283-295 : ill https://doi.org/10.1007/978-3-319-13969-2_21 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Virtual reality visualization for short fibre orientation analysis

Pastorelli, Emiliano; Herrmann, Heiko BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 201-204 : ill

Virtual society : new solutions for senior workers

Siirak, Virve Avoiding Aging Catastrophe : proceedings of the international symposium : 28-29 January 2002, Tallinn, Estonia 2002 / p. 52-59

Профессор TalTech: Мета вселенная не должна стать бесхозной территорией [Online resources]

Kerikmäe, Tanel rus.postimees.ee 2022 [Профессор TalTech: Мета вселенная не должна стать бесхозной территорией](#)