

AI functionalities in cobot-based manufacturing for performance improvement in quality control application

Moor, Madis; Sarkans, Martinš; Kangru, Tavo; **Otto, Tauno; Riives, Jüri** Journal of machine engineering 2024 / p. 5-16
<https://doi.org/10.36897/jme/189169>

An object detection and pose estimation approach for position based visual servoing

Shi, Lei 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 193-196 : ill http://www.ester.ee/record=b4650094*est

Application of Leddar to optimize image processing operations

Mets, Oliver; Piigli, Ervin 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 209-210 : ill
http://www.ester.ee/record=b4650094*est

Automatic products identification method

Põlder, Ahti; Juurma, Märt; Tamre, Mart Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 338-344 : ill

Computer vision in applications of adaptive management

Shvarts, Dmitry; Tamre, Mart 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 212-215 : ill

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>

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>

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 (ICAIIIC), 13-16 April 2021 2021 / p. 063–067
<https://doi.org/10.1109/ICAIIIC51459.2021.9415271>

FastStereoNet : A fast neural architecture search for improving the inference of disparity estimation on resource-limited platforms

Loni, Mohammad; Zoljodi, Ali; Majd, Amin; Ahn, Byung Hoon; **Daneshtalab, Masoud;** Sjödin, Mikael; Esmaeilzadeh, Hadi IEEE Transactions on Systems, Man, and Cybernetics : Systems 2022 / p. 5222-5234 : ill <https://doi.org/10.1109/TSMC.2021.3123136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Global 3D map merging methods for robot navigation = 3D globaalkaardi ühendamise meetodid roboti navigeerimiseks

Shvarts, Dmitry 2013 https://www.ester.ee/record=b2967928*est

Hyperspectral imaging for vehicle traction effort prediction: ISEAUTO case study

Valme, Daniil; Rassõlkin, Anton; Liyanage, Dhanushka Chamara 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227463>

Hyperspectral/multispectral imaging methods for quality control

Liyanage, Dhanushka Chamara; Tamre, Mart; Hudjakov, Robert Handbook of research on new investigations in artificial life, AI, and machine learning 2022 / p. 438-461 <https://doi.org/10.4018/978-1-7998-8686-0.ch017>

Infotehnoloogia. Sõnastik. Osa 30, Raalnägemine

Hanson, Vello; Tavast, Arvi; **Kalja, Ahto; Vöhandu, Leo** 2003 https://www.ester.ee/record=b1763027*est

IR technology and image processing applied to flow investigation

Lähdeniemi, Matti; Ekholm, Ari; **Koppel, Tiit; Ainola, Leo** Machine vision news 2002 / p. 12

Lab 7a: Machine vision - CMUcam3 and PC. Lab 7b: Machine vision - CMUcam3 and ATmega128. Lab 7c: Object tracking

Christophe, Francois; Ernits, Margus; **Sell, Raivo** Hands-on Lab exercises 2008 / p. 107-126 : ill

Machine vision for automated collaborative robot programming in manufacturing industrial factories

Ahmadilivani, Mohammad Hasan; Karatopuk, Emre; Roots, Marten; Raik, Jaan Smart machines and systems at the service of mankind : Abstracts of the 12th annual entrepreneurship and innovation conference 2024 / p. 10 <https://conference.euas.eu/2024/wp-content/uploads/2024/10/ConferenceProceedings2024-1.pdf> https://www.ester.ee/record=b5705417*est

Masinad nägijaks

Kirt, Toomas; Listak, Madis Horisont 2004 / 3, lk. 40-43 https://artiklid.elnet.ee/record=b1015862*est

Measurement methods with 3D coordinate measuring machine and improved characterization setup for detector performance = Mõõtemetodid detektori toimimise iseloomustamiseks 3D-koordinaatmõõtemasina ja arendatud mõõteskeemiga

Dhoska, Klodian 2016 <https://digi.lib.ttu.ee/i/?5296> https://www.ester.ee/record=b4574991*est

Positioning error correction of autonomously movable robot arm

Vaher, Kristo; Otto, Tauno; Riives, Jüri Journal of the machine engineering 2020 / p. 152-160 : ill <https://doi.org/10.36897/jme/129013>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Review of methods for estimation of 2D homography

Shvarts, Dmitry; Tamre, Mart 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 204-208 : ill

Simulation based feasibility analysis of autonomously movable robot arm

Vaher, Kristo; Mahmood, Kashif; Otto, Tauno; Riives, Jüri Proceedings of the Estonian Academy of Sciences 2021 / p. 422-428 : ill <https://doi.org/10.3176/proc.2021.4.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation based feasibility analysis of autonomously movable robot arm

Vaher, Kristo; Mahmood, Kashif; Otto, Tauno; Riives, Jüri IOP conference series : materials science and engineering 2021 / art. 012055, 6 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012055>

Teaduse ja tööstuse kohtumispaik

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/teaduse-ja-toostuse-kohtumispaik/>

A visual-semantic approach for building content-based recommender systems

Bendouch, Mounir M.; Frasincar, Flavius; Robal, Tarmo Information systems 2023 / art. 102243, 12 p. : ill <https://doi.org/10.1016/j.is.2023.102243> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wood products automatic identification based on fingerprint method

Põlder, Ahti; Juurma, Märt; Tamre, Mart Journal of vibroengineering 2012 / p. 477-482
https://www.researchgate.net/publication/285309496_Wood_products_automatic_identification_based_on_fingerprint_method

Методы улучшения изображения для систем технического зрения мобильного робота

Shvarts, Dmitry Journal of international scientific publications : Materials, methods & technologies 2009 / 2, p. 49-58