

Amfibrobotid aitavad aimu saada veealusest elust

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An enhanced situational awareness of a mission for an autonomous vehicle by multirate control

Astrovi, Igor; Pedai, Andrus Proceedings of the 5th WSEAS International Conference on Dynamical Systems and Control :

CONTROL'09 : La Laguna, Spain, July 1-3, 2009 2009 / p. 33-39

https://www.researchgate.net/publication/228809791_An_enhanced_situational_awareness_of_a_mission_for_an_autonomous_underwater_vehicle_by_multirate_control

An enhanced situational awareness of AUV's mission by multirate neural control

Astrovi, Igor; Pikkov, Mihhail World Academy of Science, Engineering and Technology 2012 / p. 91-97 : ill

<https://zenodo.org/records/1335220>

An enhanced situational awareness of AUV's mission by multirate neural control [Electronic resource]

Astrovi, Igor; Pikkov, Mihhail ICMOS 2012 CD-ROM Proceedings : [International Conference on Modelling, Optimization and

Simulation (ICMOS 2012), Berlin, Germany, September 19-20, 2012] 2012 / [7 p.] : ill [CD-ROM] <https://zenodo.org/records/1335220>

Analysing adversarial threats to rule-based local-planning algorithms for autonomous driving

Roberts, Andrew; Malayjerdi, Mohsen; Bellone, Mauro; Maennel, Olaf Manuel; Malayjerdi, Ehsan The Inaugural Symposium on Vehicle Security and Privacy (VehicleSec) 2023, 27 February 2023, San Diego, CA, USA 2023 / 8 p. : ill

<https://doi.org/10.14722/vehiclesec.2023.23086>

Applying RIS-based communication for collaborative computing in a swarm of drones

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihihin, Maksim IEEE Access 2023 / p. 70093-70109

<https://doi.org/10.1109/ACCESS.2023.3293737>

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>

Autonoomsed intelligentsed tehnoloogiad ja õigusruum : ettekanne

Kerikmäe, Tanel Eesti Krati tegevuskava koostamise lõpuseminar, TalTech, 28.05.2019 2019 / 18 l

https://docs.wxstatic.com/ugd/89dea2_c9baef025a945c2a9585179074fd189.pdf

Biologically inspired semi-autonomous underwater robot

Listak, Madis; Kruusmaa, Maarja US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 89

Challenges of reliability assessment and enhancement in autonomous systems

Jenihihin, Maksim; Sonza Reorda, Matteo; Balakrishnan, Aneesh; Alexandrescu, Dan 2019 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT 2019) 2019 / 6 p <https://doi.org/10.1109/DFT.2019.8875379>

A comparative analysis of Fuzzy AHP and Fuzzy VIKOR methods for prioritization of the risk criteria of an autonomous vehicle system

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo Proceedings of the Estonian Academy of Sciences 2024 / p. 116-123

<https://doi.org/10.3176/proc.2024.2.04>

Delivery robots for smart rural development

Prause, Gunnar Klaus; Boevsky, Ivan Икономика и управление на селското стопанство = Agricultural economics and management 2018 / p. 57-65 : ill https://journal.jaem.info/page/en/details.php?article_id=446&tab=en

Developing autonomous robotic transport systems for hospitals and medical facilities : legal challenges

Kerikmäe, Tanel; Kajander, Aleksi Oskar Johannes; Hamulak, Ondrej; Mesarčík, Matúš; Andraško, Jozef; Liiv, Innar Icon 2023 / p. 88-104 <https://www.icohtec.org/icon/volume-28-issue-2-2023/>

Eesti isesõitva bussi avariil Helsingis põhjustas juht. "See on inimene, kes teeb liikluses vigu" [Võrguväljaanne]

ituudised.ee 2021 ["Eesti isesõitva bussi avariil Helsingis põhjustas juht. "See on inimene, kes teeb liikluses vigu" "](#)

Enhancing inclusivity in higher education : the case of TEMI semi-autonomous robot for special needs students in technical courses

Budagov, Fuad; Leoste, Janika; Meeran, Mohammad Tariq AmiES-2023 : abstracts 2024 / 1 p https://international-symposium.org/amiess_2023/abstracts.html

Enhancing situational awareness through multirate control of an autonomous underwater vehicle

Astrovi, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation : August 9-12, Changchun, China 2009 / p. 1184-1189 : ill <https://ieeexplore.ieee.org/document/5246459?reload=true&arnumber=5246459>

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

Formal verification of COLREG-Based Navigation of maritime autonomous systems

Shokri-Manninen, Fatima; Vain, Jüri; Walden, Marina Software Engineering and Formal Methods : 18th International Conference, SEFM 2020, Amsterdam, The Netherlands, September 14-18, 2020 : Proceedings 2020 / p. 41-59 https://doi.org/10.1007/978-3-030-58768-0_3 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

A geometric approach to position tracking control of a nonholonomic planar rigid body : case study of an underwater vehicle

Simha, Ashutosh; Kotta, Ülle Proceedings of the Estonian Academy of Sciences 2020 / p. 215-227 : ill
<https://doi.org/10.3176/proc.2020.3.05> https://kirj.ee/public/proceedings_pdf/2020/issue_3/proc-2020-3-215-227.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

2023 <https://www.icohtec.org/icon/volume-28-issue-2-2023/>

Implementation of integrated wireless network and MATLAB system to control autonomous mobile robot

Tamre, Mart; Hudjakov, Robert; Shvarts, Dmitry; Pölder, Ahti; Hiiemaa, Maito; Juurma, Märt International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 18-25 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.18-25>

Isesõidukid – kes juhib, kes vastutab? [Võrguväljaanne]

Hoffmann, Thomas logistikauudised.ee 2022 [Isesõidukid – kes juhib, kes vastutab?](#)

Kristjan Tabri ja Heigo Mölder: meretaristut võksid valvata robotid = Kristjan Tabri, Heigo Mölder: Robots could guard marine infrastructure

Tabri, Kristjan; Mölder, Heigo err.ee 2023 [Kristjan Tabri ja Heigo Mölder: meretaristut võksid valvata robotid Kristjan Tabri, Heigo Mölder: Robots could guard marine infrastructure](#) Кристиян Табри и Хейго Мольдер: морскую инфраструктуру могли бы охранять роботы

Kus on targad laevad ja miks need veel ei seila?

Alop, Anatoli postimees.ee 2023 [Kus on targad laevad ja miks need veel ei seila?](#)

MaaS XT võib olla samm parema ühistranspordivõrgustiku suunas

accelerista.com 2023 [MaaS XT võib olla samm parema ühistranspordivõrgustiku suunas](#)

Model-based testing framework for autonomous multi-robot systems = Mudelipõhine testimisraamistik autonoomsetele multirobotsüsteemidele

Kanter, Gert 2020 <https://digikogu.taltech.ee/et/item/575133f2-f94a-49d4-a7c9-0615b54ae139> <https://doi.org/10.23658/taltech.19/2020>

Model-based testing of autonomous robots using TestIt

Kanter, Gert; Vain, Jüri Journal of reliable intelligent environments 2020 / p. 15-30 <https://doi.org/10.1007/s40860-019-00095-w> Journal metrics at Scopus Article at Scopus

Navigation for autonomous mobile robots

Leoste, Margus Тезисы докладов I международной (XII всероссийской) конференции по автоматизированному электроприводу, 26-28 сентября 1995 г., Санкт-Петербург 1995 / с. 76

Novel digital twin concept for industrial application. Study case: propulsion drive system

Jegorov, Sergei; Rassõlkin, Anton; Rjabtšikov, Viktor; Ibrahim, Mahmoud; Kuts, Vladimir Proceedings of ASME 2022 International Mechanical Engineering Congress and Exposition (IMECE2022), 2B: Columbus, Ohio, USA, October 30 - November 3, 2022 2022 / art. IMECE2022-97243, V02BT02A011, 6 p. <https://doi.org/10.1115/IMECE2022-97243>

On the regulatory framework for last-mile delivery robots

Hoffmann, Thomas; Prause, Gunnar Klaus Machines 2018 / art. 33, 16 p <https://doi.org/10.3390/machines6030033> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Razdan, Rahul; Akbas, Mustafa İlhan; Sell, Raivo; Bellone, Mauro; Menase, Mahesh; Malayjerdi, Mohsen IEEE Access 2023 / p. 28343-28354 <https://doi.org/10.1109/ACCESS.2023.3258681>

Raivo Sell - professorist merepäästja

Rauk, Ketlin Harju Elu 2022 / Lk. 8 https://www.esther.ee/record=b2337466*est

Reedel esitleti uue põlvkonna isejuhtivat sõidukit MiCa [Võrguväljaanne]

auto24.ee 2022 [Reedel esitleti uue põlvkonna isejuhtivat sõidukit MiCa](#)

Research: Robots assist in gaining glimpse of life underwater

Traks, Kristina news.err.ee 2023 [Research: Robots assist in gaining glimpse of life underwater](#)

ROS middle-layer integration to Unity 3D as an interface option for propulsion drive simulations of autonomous vehicles

Kuts, Vladimir; Rassõlkin, Anton; Partyshov, Andriy; Jegorov, Sergei; Rjabtšikov, Viktor IOP conference series : materials science and engineering 2021 / art. 012008, 7 p.:ill <https://doi.org/10.1088/1757-899X/1140/1/012008>

Scenario-based Validation for Autonomous Vehicles with Different Fidelity Levels

Malayjerdi, Mohsen; Kaljavesi, Gemb; Diermeyer, Frank; Sell, Raivo 2023 IEEE Conference on Intelligent Transportation Systems (ITSC 2023) 2023 / 6 p

Self-driving shuttle bus use case in city of Tallinn

Kalda, Krister; Sell, Raivo; Soe, Ralf-Martin IOP conference series : materials science and engineering 2021 / art. 012047, 6 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012047>

Simulink/MATLAB based comparison of neural and basic tracking control for an autonomous surface vessel for situation awareness applications

Astrov, Igor; Udal, Andres; Pedai, Andrus; Sell, Raivo 2019 IEEE 19th International Symposium on Computational Intelligence and Informatics and 7th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (CINTH-MACRo) 2019 / p. 000105 - 000110 : ill

Soil sampling automation case-study using unmanned ground vehicle

Väljaots, Eero; Lehiste, Henri; Kiik, Meelik; Leemet, Tõnu Engineering for rural development 2018 / p. 982-987 : ill <https://doi.org/10.22616/ERDev2018.17.N503>

Soil sampling automation using mobile robotic platform

Väljaots, Eero; Lehiste, H.; Kiik, M.; Leemet, Tõnu Agronomy research 2018 / p. 917-922 : ill <https://doi.org/10.15159/AR.18.138>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Soil sampling automation using mobile robotic platform [Online resource]

Väljaots, Eero; Lehiste, H.; Kiik, M.; Leemet, Tõnu 9th International Conference "Biosystems Engineering 2018": 9–11 May, 2018, Estonia, Tartu : book of abstracts 2018 / p. 113 http://bse.emu.ee/wp-content/uploads/2018/10/ABS_2018_Book_VV.pdf

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

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

State estimation and control for small low-cost autonomous underwater vehicles = Meetodid olekute hindamiseks ja juhtimiseks soodsas hinnaga autonoomsetele allveerobotitele

Meurer, Christian 2021 https://www.ester.ee/record=b5435482*est <https://digikogu.taltech.ee/et/item/717111f2-51e3-4176-b0b8-b369064b26a2> <https://doi.org/10.23658/taltech.27/2021>

Tallina külje all Järvekülas saab nüüd sõita isejuhtiva bussiga

Pau, Aivar forte.delfi.ee 2023 [Tallina külje all Järvekülas saab nüüd sõita isejuhtiva bussiga](#)

Tallinna lennujaamas hakkasid toimetama autonoomsed sõidukid

accelerista.com 2023 [Tallinna lennujaamas hakkasid toimetama autonoomsed sõidukid](#)

TalTechi iseAuto v2.0 sai uue futuristlikuma ja pilkupüüdvama disaini [Võrguväljaanne]

arvutimaailm.ee 2021 ["TalTechi iseAuto v2.0 sai uue futuristlikuma ja pilkupüüdvama disaini"](#)

Target tracking by neural predictive control of autonomous surface vessel for environment monitoring and cargo transportation applications

Astrov, Igor; Udal, Andres; Roasto, Indrek; Mölder, Heigo 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p <https://doi.org/10.1109/BEC49624.2020.9277115>

The impact of digital autonomous tools on private autonomy

Hoffmann, Thomas Baltic yearbook of international law 2021 https://www.ester.ee/record=b1689368*est

2D estimation of velocity relative to water and tidal currents based on differential pressure for autonomous underwater vehicles

Meurer, Christian; Fuentes-Perez, Juan Francisco; Schwarwalder, Kordula; Ludvigsen, Martin; Sorensen, Asgeir Johan; Kruusmaa, Maarja IEEE robotics and automation letters 2020 / p. 3444–3451 <https://doi.org/10.1109/LRA.2020.2976318> [Journal](#)

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

User-centered design for Human-Robot Collaboration systems

Pizzagalli, Simone Luca; Kuts, Vladimir; Otto, Tauno IOP conference series : materials science and engineering 2021 / art. 012011, 7 p.; ill <https://doi.org/10.1088/1757-899X/1140/1/012011>

Uurimislaeval HELI pole ei meeskonda ega kaptenit

toostusuudised.ee 2023 [Uurimislaeval HELI pole ei meeskonda ega kaptenit](#)

Uus täisautonoomne robotlaev Heli leiab kalaparvi

Jalakas, Tanel Teejuht : maal, vees ja õhus : Transpordiameti digiajakiri 2023 / lk. 16-17 : fot https://www.estter.ee/record=b5495900*est
<https://transpordiamet.ee/digiajakiri-teejuht-talv-2023-nr8>

Ülemiste Citys hakati testima kolmel isejuhtival bussil põhinevat ühistranspordi platvormi [Võrguväljaanne]

tehnikamaailm.ee 2021 "[Ülemiste Citys hakati testima kolmel isejuhtival bussil põhinevat ühistranspordi platvormi](#)"