

Aasta parimad teadusartiklid

Mente et Manu 2023 / lk. 22-25 : fot https://www.ester.ee/record=b1242496*est

Aerial imagery terrain classification for long-range autonomous navigation

Hudjakov, Robert; **Tamre, Mart** Proceedings of International Symposium on Optomechatronic Technologies : ISOT 2009 2009 / p. 88-91 <https://ieeexplore.ieee.org/document/5326104>

Aerial imagery terrain classification for long-range autonomous navigation

Hudjakov, Robert; Tamre, Mart Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 530-535 : ill

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

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim IEEE Access 2023 / p. 70093–70109 <https://doi.org/10.1109/ACCESS.2023.3293737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Arukas droon lennutas kohale pitsa ja teeb keskkonnaressursside seiret

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

Brief Communication : mapping river ice using drones and structure from motion

Alfredsen, Knut; Haas, Christian; **Tuhtan, Jeffrey Andrew**; Zinke, Peggy The cryosphere 2018 / p. 627-633 : ill
<https://doi.org/10.5194/tc-12-627-2018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Business opportunities for a ground effect vehicle - case of Canary Islands

Otsason, Riina; Hilmola, Olli-Pekka; Tapaninen, Ulla; Tovar, Beatriz Transport and Telecommunication 2024 / p. 473 - 482
<https://doi.org/10.2478/ttj-2024-0034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Camera gimbal control system for unmanned platforms

Tiimus, Kristjan; Tamre, Mart Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 560-565 : ill

Camera gimbal control system for unmanned platforms

Tiimus, Kristjan; 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. 202-207 : ill

Cell coverage analysis of a low altitude aerial base station in wind perturbations

Sharma, Navuday; Sharma, Vishal; Magarini, Maurizio; Pervaiz, Haris; **Alam, Muhammad Mahtab; Le Moullec, Yannick** 2019 IEEE Globecom Workshops (GC Wkshps) : Proceedings 2019 / 6 p <https://doi.org/10.1109/GCWkshps45667.2019.9024665>

CITYAM empowers responsible urban air mobility : deliverable of activity 1.5 - setting up the evaluation framework

Müür, Jaanus 2024 <https://interreg-baltic.eu/wp-content/uploads/2024/02/D1.5-Setting-up-the-evaluation-framework-final.pdf>

Civil liability regime for artificial intelligence : European added value assessment

Evas, Tatjana 2020 [https://www.europarl.europa.eu/RegData/etudes/STUD/2020/654178/EPRS_STU\(2020\)654178_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/STUD/2020/654178/EPRS_STU(2020)654178_EN.pdf)
<https://doi.org/10.2861/737677>

Comparision of aerial imagery and satellite imagery for autonomous vehicle path planning

Hudjakov, Robert; Tamre, Mart Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 301-308 : ill

Complete capillary electrophoresis process on a drone : towards a flying micro-lab

Drevinskas, Tomas; Maruška, Audrius; Girdauskas, Valdas; Dūda, Gediminas; **Gorbatšova, Jelena; Kaljurand, Mihkel** Analytical Methods 2020 / p. 4977 - 4986 <https://doi.org/10.1039/d0ay01220c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comprehensive survey on revolutionizing connectivity through artificial intelligence-enabled digital twin network in 6G

Sheraz, Muhammad; Chuah, Teong Chee; Lee, Ying Loong; **Alam, Muhammad Mahtab**; Al-Habashna, Ala'a; Han, Zhu IEEE Access 2024 / p. 49184-49215 <https://doi.org/10.1109/ACCESS.2024.3384272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Conceptual test bench for small class unmanned autonomous vehicle performance estimation

Pütsep, Kristjan; Rassõlkin, Anton; Vaimann, Toomas 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 695-698 : ill
<https://doi.org/10.1109/PEMC48073.2021.9432509>

A configurable radio jamming prototype for physical layer attacks against malicious unmanned aerial vehicles

Caforio, Giulio; Scazzoli, Davide; Reggiani, Luca; Magarini, Maurizio; **Le Moullec, Yannick; Alam, Muhammad Mahtab** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277253>

Control Multirrádio de Drones Multirrotor Autónomos: Modelización y Simulación

Astrov, Igor 2023 [Control Multirrádio de Drones Multirrotor Autónomos: Modelización y Simulación](#)

Contrôle Multirate des Drones Multirotors Autonomes: Modélisation et Simulation

Astrov, Igor 2023 [Contrôle Multirate des Drones Multirotors Autonomes: Modélisation et Simulation](#)

Controllo multirate di droni multirotori autonomi : modellazione e simulazione

Astrov, Igor 2023 [Controllo Multirate di Droni Multirotori Autonomi: Modellazione e Simulazione](#)

Controlo Multirato de Drones Multirotor Autónomos: Modelação e Simulação

Astrov, Igor 2023 [Controlo Multirato de Drones Multirotor Autónomos: Modelação e Simulação](#)

Deep learning for radar-based object detection in unmanned ground vehicles

Ersü, Can; Petlenkov, Eduard; Janson, Karl Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 8 : oral 33 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

Desired trajectory generation of a quadrotor helicopter using hybrid control for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2010 IEEE International Conference on Information and Automation : June 20-23, Harbin, China 2010 / p. 1003-1007 : ill <https://ieeexplore.ieee.org/document/5512295>

Development and testing of vertical take-off and landing aerial vehicle with tandem electric ducted fan motor

Pütsep, Kristjan; Nerep, Tõivo; Tiismus, Hans; Rassõlkin, Anton Proceedings of the Estonian Academy of Sciences 2023 / p. 184–193 <https://doi.org/10.3176/proc.2023.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Device-to-device discovery and localization assisted by UAVs in pervasive public safety networks

Masood, Ali; Sharma, Navuday; Alam, Muhammad Mahtab; Le Moullec, Yannick; Scazzoli, Davide; Magarini, Maurizio; Ahmad, Rizwan Proceedings of the ACM MobiHoc workshop on innovative aerial communication solutions for First Responders network in emergency scenarios : iFIRE '19, Catania, Italy, July 2-5, 2019 2019 / p. 6-11 <https://doi.org/10.1145/3331053.3335031>

Doktoritöö aitab droone kuulekamaks muuta

Reimann, Andres novaator.err.ee 2023 [Doktoritöö aitab droone kuulekamaks muuta](#) <https://digikogu.taltech.ee/et/Item/17167e2e-2c31-451c-834d-1da98160b2ce>

A DRL strategy for optimal resource allocation along with 3D trajectory dynamics in UAV-MEC network

Khurshid, Tayyaba; Ahmed, Waqas; Rehan, Muhammad; Ahmad, Rizwan; **Alam, Muhammad Mahtab**; Radwan, Ayman IEEE Access 2023 / p. 54664 - 54678 <https://doi.org/10.1109/ACCESS.2023.3278591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Droon lendab terroriohvreile appi

Imeline Teadus 2021 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Droonid uurivad vihmausside bioindikatsiooni abil raskemetallide levikut keskkonnas

Mente et Manu 2018 / lk. 35 : fot http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868933*est

Droonide lihtsus ja odavus võimaldab neid sõjas massiliselt kasutada [Võrguväljaanne]

Klementi, Joakim err.ee 2022 [Droonide lihtsus ja odavus võimaldab neid sõjas massiliselt kasutada](#)

Droonimured ja nende lahendused

Strandberg, Marek Inseneeria 2016 / lk. [6] : fot https://artiklid.elnet.ee/record=b2796762*est

Edge intelligence resource consumption by UAV-based IR object detection

Polukhin, Andrii; Gordienko, Yuri; Leier, Mairo; Jervan, Gert; Rokovyi, Oleksandr; Alienin, Oleg; Stirenko, Sergii UAVM '23 : proceedings of the 2023 Workshop on UAVs in multimedia : capturing the world from a new perspective 2023 / p. 57-61 <https://doi.org/10.1145/3607834.3616566>

Edge-to-Fog collaborative computing in a swarm of drones

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim Advances in Model and Data Engineering in the Digitalization Era : MEDI 2021 International Workshops: DETECT, SIAS, CSMMML, BIOC, HEDA, Tallinn, Estonia, June 21–23, 2021 : proceedings 2021 / p. 78–87 https://doi.org/10.1007/978-3-030-87657-9_6 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Eesti kaitsetööstus on kümne aastaga kujunenud tugevaks majandusharuks

Ränisoo, Tarmo Postimees 2021 / Lk. 18-19 : fot <https://dea.digar.ee/article/postimees/2021/02/25/15.2>

Eesti lennundus: turbulents või tõus?

Nõmmik, Allan Trialoog 2025

Eesti taevase andurite valve all : drooniradar tuvastab, mis meie peade kohal lendab

Einama, Kaido postimees.ee 2025 <https://tehnika.postimees.ee/8272680/est-aevas-andurite-valve-all-drooniradar-tuvastab-mis-meie-peade-kohal-lendab>

Eesti teadlaste juhtimisel luuakse droonilahendus terrorirünnaku ohvrite aitamiseks [Võrguväljaanne]

digi.geenius.ee 2021 ["Eesti teadlaste juhtimisel luuakse droonilahendus terrorirünnaku ohvrite aitamiseks"](https://digi.geenius.ee/est-teadlaste-juhtimisel-luuakse-droonilahendus-terrorirunnaku-ohvrite-aitamiseks)

Ehitustegevuse kaardistamine kaugseirega

Puust, Raido Horisont 2020 / lk. 49-53 : fot https://www.ester.ee/record=b1072243*est

Energy consumption of mini UAV helicopters with different number of rotors

Aleksandrov, Dmitri; Penkov, Igor 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 259-262 : ill

Energy saving types of mini unmanned aerial vehicles

Aleksandrov, Dmitri; Penkov, Igor 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. 117-120 : ill

Enhanced situational awareness for AUV's stochastic model by multirate neural control

Astrov, Igor; Pedai, Andrus SysCon 2010 Proceedings : 2010 IEEE International Systems Conference (SysCon 2010), San Diego, California, USA, April 5-8, 2010 2010 / p. 66-70 : ill <https://ieeexplore.ieee.org/document/5482465>

Enhancing situational awareness by means of hybrid adaptive neural control of vertical flight in unmanned helicopter [Electronic resource]

Pedai, Andrus; Astrov, Igor ICCAS 2008 CD-ROM proceedings : International Conference on Control, Automation and Systems 2008 (ICCAS 2008, Seoul, Korea, October 14-17, 2008) 2008 / p. 329-332 [CD-ROM] <https://ieeexplore.ieee.org/document/4694666>

Enhancing the cyber resilience of sea drones

Orye, Erwin; Visky, Gabor; Rohl, Alexander; Maennel, Olaf Manuel CyCon 2024 : Over the Horizon 16th International Conference on Cyber Conflict 2024 / p. 83-102 https://ccdc.org/uploads/2024/05/CyCon_2024_Orye_Visky_Rohl_Maennel-1.pdf
<https://doi.org/10.23919/CyCon62501.2024.10685581> Conference proceedings at Scopus Article at Scopus Article at WOS

Estonian making steps towards joining international UAV Community

Leomar, Priit; Tamre, Mart; Vaher, Tõnu Proc. of Conf. EURO UAV : 2004, France 2004 / [11] p

Estonian scientists create a drone solution to help victims of terrorist attacks [Online resource]

Hankewitz, Sten estonianworld.com 2021 ["Estonian scientists create a drone solution to help victims of terrorist attacks"](https://estonianworld.com/2021/02/25/estonian-scientists-create-a-drone-solution-to-help-victims-of-terrorist-attacks/)

Fast and fair computation offloading management in a swarm of drones using a rating-based federated learning approach

Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim IEEE Access 2021 / p. 113832-113849
<https://doi.org/10.1109/ACCESS.2021.3104117> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Flight control of a trirotor mini-UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2010 / p. 271-277 : ill
<https://zenodo.org/records/1060629>

Flight control of a trirotor mini-UAV for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus ICAAE 2010 CD-ROM Proceedings : International Conference on Aeronautical and Astronautical Engineering : Amsterdam, Netherlands, September 28-29, 2010 2010 / p. 316-322 [CD-ROM]

Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris World Academy of Science, Engineering and Technology 2012 / p. 75-81 : ill
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus; Gordon, Boris ICCEA 2012 CD-ROM Proceedings : [International Conference on Computer

Engineering and Applications (ICCEA 2012) : Copenhagen, Denmark, June 11-12, 2012] 2012 / p. 75-81 : ill [CD-ROM]
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-i2-controllers-for-enhanced-situational-awareness>

Flight trajectory control of an eight-rotor UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Recent Researches in System Science : proceedings of the 15th WSEAS International Conference on Systems (part of the 15th WSEAS CSCC Multiconference) : Corfu Island, Greece, July 14-16, 2011 2011 / p. 77-82
<http://www.wseas.us/e-library/conferences/2011/Corfu/SYSTEMS/SYSTEMS-10.pdf>

Ghost injection attack on automatic dependent surveillance–broadcast equipped drones impact on human behaviour

Haddad, Yazeed; Orye, Erwin; Maennel, Olaf Manuel 2021 IEEE International Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) : Virtual Conference, 14-22 May 2021 : proceedings 2021 / p. 161-166
<https://doi.org/10.1109/CogSIMA51574.2021.9475928>

GPS jamming hard to combat

Rohemäe, Maria-Ann news.err.ee 2024 [GPS jamming hard to combat](#) [GPS jamming hard to combat](#)

GPS-i segamisel võib olla mitu põhjust

Lauri, Vahur err.ee 2024 [GPS-i segamisel võib olla mitu põhjust](#)

Improving motion safety and efficiency of intelligent autonomous swarm of drones

Majd, Amin; Loni, Mohammad; Sahebi, Golnaz; **Daneshtalab, Masoud** Drones 2020 / art. 48, 19 p. : ill
<https://doi.org/10.3390/drones4030048>

Increasing of power characteristics of mini UAV helicopter by changing of its geometrical parameters

Aleksandrov, Dmitri; Penkov, Igor Machines, technologies, materials : [virtual journal] 2012 / p. 30-32 : ill <http://trans-motauto.com/sbornik/2012/22.INCREASING%20OF%20POWER%20CHARACTERISTICS%20OF%20MINI%20UAV%20HELICOPTER%20BY%20C-HANGING%20OF%20ITS%20GEOMETRICAL%20PARAMETERS.pdf>

Innovatsioon keskkonnamõõtmises ühendab droonid ja vihmaussid

Ivask, Mari; Rüütl, Rinaldo; Lepasaar, Tiit; Nei, Lembit; Raamets, Jane; Kuu, Annely Jälg 2019 / lk. 52-58
https://www.ester.ee/record=b5154573*est

Integrating drone-captured sub-catchment topography with multiphase CFD modelling to enhance urban stormwater management

Kaur, Katrin; Annus, Ivar; Truu, Murel; Kändler, Nils; Paalmäe, Iris The 3rd International Joint Conference on Water Distribution Systems Analysis & Computing and Control for the Water Industry (WDSA/CCWI 2024) 2024 / art. 31
<https://doi.org/10.3390/engproc2024069031> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Interactive maps for knowledge based guidance of UAV

Meriste, Merik; Mõtus, Leo; Kelder, Tõnu; Helekivi, Jüri; Polikarpus, M. Proceedings : SCI-202 Symposium on Intelligent Uninhabited Vehicle Guidance Systems : München, 30 June - 2 July 2009 2009 / p. 14-1 - 14-22

Internet of drones-enabled Smart Cities

Sharma, Navuday; Magarini, Maurizio; Alam, Muhammad Mahtab IoT Architectures, Models, and Platforms for Smart City Applications 2020 / p. 107-133 <https://doi.org/10.4018/978-1-7998-1253-1.ch006>

Kaupo Reede: Eesti tööstuse konkurentsivõimet pärsib kasin innovatsioon

Maidla, Margus novaator.err.ee 2024 [Kaupo Reede: Eesti tööstuse konkurentsivõimet pärsib kasin innovatsioon](#)

Kuidas juhtida droone linnataevas?

Müür, Jaanus; Martijne-Hartikka, Renske Trialoog 2025 <https://trialoog.taltech.ee/triavoog-kuidas-juhtida-droone-linnataevas/>

Kuidas juhtida lihtsat, aga võimekat drooni?

Imeline Teadus 2024 / lk. 20 https://www.ester.ee/record=b2747925*est

Managing critical nodes in UAV assisted disaster networks

Hassan, Ali; Ahmad, Rizwan; Ahmed, Waqas; Magarini, Maurizio; **Alam, Muhammad Mahtab** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2021 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276993>

Mehitamata lennumasinad

Luczkowski, Teodor Tehnikamaailm 2003 / 8, lk. 74-77 : ill https://artiklid.elnet.ee/record=b1043064*est

Methodology for flight controllers for nano, micro and mini drones classification

Pütsep, Kristjan; Rassõlkin, Anton 2021 International Conference on Engineering and Emerging Technologies (ICEET), Istanbul, Turkey, 27-28 Oct. 2021 : conference proceedings 2021 / 7 p. : ill <https://doi.org/10.1109/ICEET53442.2021.9659572>

Militaarobjektide valvetehnoloogia areng

Udal, Andres; Kaugerand, Jaanus; Savimaa, Raul; Märten, Olev Sõjateadlane = Estonian journal of military studies 2023 / lk. 194-224 : ill <https://www.kvak.ee/sojateadlane22/> https://www.ester.ee/record=b4555087*est

Modelling and simulation of autonomous vehicles and systems and their advanced control methods = Autonomsete sõidukite ja süsteemide ning nende täiustatud juhtimismetoodikate modelleerimine ja simuleerimine

Pedai, Andrus 2021 https://www.ester.ee/record=b5391357*est <https://digikogu.taltech.ee/et/Item/654ccb12-0d81-4ae2-ae07-11248063913c> <https://doi.org/10.23658/taltech.9/2021>

Motion control of UAV having eight rotors for enhanced situational awareness

Astrov, Igor; Pedai, Andrus World Academy of Science, Engineering and Technology 2011 / p. 694-701 : ill <https://zenodo.org/records/1070115>

Motion control of X4-flyer for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Latest trends on systems : 14th WSEAS International Conference on Systems : Greece, July 22-24. Vol. 1 2010 / p. 123-128: ill https://www.researchgate.net/publication/228503868_Motion_control_of_X4-flyer_for_enhanced_situational_awareness

Motor failure tolerant control system with self diagnostics for unmanned multirotors

Ambroziak, Leszek; **Simha, Ashutosh**; Pawluszewicz, Ewa; Kotta, Ülle 2019 24th International Conference on Methods and Models in Automation and Robotics (MMAR) 2019 / p. 422–427 : ill <https://doi.org/10.1109/MMAR.2019.8864726>

Multirate Control of Autonomous Multirotor Drones : Modeling and Simulation

Astrov, Igor 2023 https://www.amazon.com/dp/6200646651/ref=sr_1_1?qid=1682616238&refinements=p_27%3AAlgor+Astrov&s=books&sr=1-1&text=Igor+Astrov

Multirate-Steuerung von Autonomen Multirotor-Drohnen : Modellierung und Simulation

Astrov, Igor 2023 <https://www.amazon.com.au/Multirate-Steuerung-von-autonomen-Multirotor-Drohnen-Modellierung/dp/6206026779>

Neural network control of vehicles : modeling and simulation

Astrov, Igor 2022 <https://doi.org/10.52305/GXGD6357> https://www.ester.ee/record=b5642329*est

Object detection for rescue operations by high-altitude infrared thermal imaging collected by unmanned aerial vehicles

Polukhin, Andrii; Gordienko, Yuri; **Jervan, Gert**; Stirenko, Sergii Pattern Recognition and Image Analysis : 11th Iberian Conference, IbPRIA 2023, Alicante, Spain, June 27–30, 2023 : proceedings 2023 / p. 490-504 https://doi.org/10.1007/978-3-031-36616-1_39 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Odavrobootika levik muudab lahinguvälja ja relvaturgu

Oidsalu, Meelis Postimees 2023 / Lk. 18-19 <https://dea.digar.ee/article/postimees/2023/11/14/20.1>

On coverage of critical nodes in UAV-assisted emergency networks

Waheed, Maham; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab**; Magarini, Maurizio Sensors 2023 / art. 1586 <https://doi.org/10.3390/s23031586> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal design and analysis of UAV swan fuselage

Leomar, Priit; Tamre, Mart; Riibe, Tõnis; Vaher, Tõnu; Haggi, Toomas Solid state phenomena 2006 / Mechatronic systems and materials, p. 91-96 : ill <https://www.scientific.net/SSP.113.91>

Optimal design and analysis of UAV swan fuselage

Leomar, Priit; Tamre, Mart; Riibe, Tõnis; Vaher, Tõnu; Haggi, Toomas Proceedings of International Conference MSM2005 : Mechatronics Systems and Materials 2005 / ? p <https://www.scientific.net/SSP.113.91>

Optimal gap distance between rotors of mini quadrotor helicopter

Aleksandrov, Dmitri; Penkov, Igor Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 251-255 : ill

Optimizing the deployment of multi-UAVs in emergency response networks

Hassan, Ali; Javed, Sadaf; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan; **Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737973> [Conference proceedings at Scopus](#) [Article at WOS](#)

Paldiski pankranniku 3D mudeli rekonstrueerimine

Kasepõld, Kadi Paat & Meremees 2016 / lk. 91-93 : ill https://artiklid.elnet.ee/record=b2780187*est

Prorektor on Metrosert grant: State fertilizing branch while cutting down the tree

Koppel, Karin news.err.ee 2025

Prorektor Metroserdi rahasüstist : riik väetab puuoksa ja saeb samal ajal tüve

Koppel, Karin err.ee 2025 [Prorektor Metroserdi rahasüstist : riik väetab puuoksa ja saeb samal ajal tüve](#)

Põlevad metsad vajavad päästmist. Eestlased pakuvad probleemile uudse lahenduse [Võrguväljaanne]

Sommer, Reelika Eesti Päevaleht 2022 [Põlevad metsad vajavad päästmist. Eestlased pakuvad probleemile uudse lahenduse](#)

Raivo Sell - professorist merepäästja

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

RAPTOR-UAV : real-time particle tracking in rivers using an unmanned aerial vehicle

Thumser, Philipp; Haas, Christian; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert** Earth surface processes and landforms 2017 / p. 2439-2446 : ill <https://doi.org/10.1002/esp.4199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Real-time multi-modal active vision for object detection on UAVs equipped with limited field of view LiDAR and camera

Shi, Chuanbeibei; Lai, Ganghua; Yu, Yushu; **Bellone, Mauro**; Lippiello, Vincezo IEEE Robotics and Automation Letters 2023 / p. 6571 - 6578 <https://doi.org/10.1109/LRA.2023.3309575> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Riik annab Metroserdile seni ülikoolides tehtud teadusmahuka arendustöö

Alvela, Ain TööstusEST 2025 / lk. 14-15 : portr https://www.ester.ee/record=b4481084*est

Rivers 2.0 - transforming rivers into digital landscapes using unmanned aerial vehicles

Haas, Christian; Thumser, Philipp; **Tuhtan, Jeffrey Andrew** Hydrolink 2019 / p. 13–15 : ill https://fithydro.eu/wp-content/uploads/2019/03/HaasC_ThumserP_TuhtanJA_2019_Rivers-2.0-Transforming_-Rivers_-into_-Digital_-Landscapes_Hydrolink.pdf

Road deformation monitoring using unmanned aerial vehicles

Varbla, Sander; Ellmann, Artu; Puust, Raido 30th International Baltic Road Conference August 23–24, 2021 : Abstracts 2021 / p. 58 https://balticroads.org/wp-content/uploads/2021/08/BRC_Abstracts_2021_V2.pdf

Robootikafestivalil Robotex käis võistlemas ligi 600 robootikut [Võrguväljaanne]

Kitsing, Mattias tehnikamaailm.ee 2021 ["Robootikafestivalil Robotex käis võistlemas ligi 600 robootikut "](#)

Situational awareness based flight control of a drone [Electronic resource]

Astrov, Igor; Pedai, Andrus 2011 IEEE International Systems Conference (SysCon 2011) : Montreal, Quebec, Canada, April 4-7, 2011 : proceedings 2011 / p. 574-578 [CD-ROM] <https://ieeexplore.ieee.org/document/5929033>

Situational awareness based flight control of a four-rotor type UAV

Astrov, Igor; Pedai, Andrus Recent Researches in Automatic Control : 13th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS'11) : Lanzarote, Canary Islands, Spain, May 27-29, 2011 / p. 63-68 https://www.researchgate.net/profile/Andrus-Pedai/publication/228410099_Situational_awareness_based_flight_control_of_a_four-rotor_type_UAV/links/0a85e52e763a72405e000000/Situational-awareness-based-flight-control-of-a-four-rotor-type-UAV.pdf?origin=scientificContributions

Situational awareness based flight control of a three-rotor mini-aircraft

Astrov, Igor; Pedai, Andrus New aspects of automatic control, modelling and simulation 2010 / p. 71-76 https://www.researchgate.net/publication/228415532_Situational_awareness_based_flight_control_of_a_three-rotor_mini-aircraft

Situational awareness based on neural control of an autonomous helicopter during hovering manoeuvres

Astrov, Igor; Pedai, Andrus Proceedings of 5th International Conference on Electrical and Computer Engineering (ICECE 2008) : Dhaka, Bangladesh, December 20-22, 2008 / p. 857-860 <https://ieeexplore.ieee.org/document/4769331>

A study of channel model parameters for aerial base stations at 2.4 GHz in different environments

Sharma, Navuday; Magarini, Maurizio; Dossi, Laura; Reggiani, Luca; Reggiani, Roberto CCNC 2018 : 15th IEEE Annual Consumer Communications and Networking Conference, Las Vegas, USA, January 12-15, 2018 : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/CCNC.2018.8319165>

Surveying pervasive public safety communication technologies in the context of terrorist attacks

Masood, Ali; Scazzoli, Davide; Sharma, Navuday; Le Moullec, Yannick; Ahmad, Rizwan; Reggiani, Luca; Magarini, Maurizio; Alam, Muhammad Mahtab Physical communication 2020 / art. 101109, <https://doi.org/10.1016/j.phycom.2020.101109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A system of systems solution for perimeter control : combining unmanned aerial system with unattended ground sensor network

Kaugerand, Jaanus Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 57-60 : ill

Tallinna tehnikaülikooli lektor selgitab, miks GPSi segaja mõjutab just eriti lennuliiklust

Arula, Eili tartupostimees.ee 2024 [Tallinna tehnikaülikooli lektor selgitab, miks GPSi segaja mõjutab just eriti lennuliiklust](#)

TalTechi droonilahendus hakkab aitama terroriohvreid

Postimees 2021 / Lk. 12 https://dea.digar.ee/publication/postimees_TalTechi_droonilahendus_hakkab_aitama_terroriohvreid

TalTechi teadlased hakkavad NATO toel uudse droonilahendusega terrorirünnakute ohvreid aitama [Võrguväljaanne]

Laikoja, Linda-Liis geenius.ee 2021 [TalTechi teadlased hakkavad NATO toel uudse droonilahendusega terrorirünnakute ohvreid aitama](#)

TalTechi teadlased loovad droonilahenduse terrorirünnaku ohvrite aitamiseks [Võrguväljaanne]

postimees.ee 2021 [TalTechi teadlased loovad droonilahenduse terrorirünnaku ohvrite aitamiseks](#)

The main classification of light aerial vehicles

Pütsep, Kristjan 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. 89-90 https://www.ester.ee/record=b5291755*est

Tudengite loodud seiresüsteem aitab tuvastada reegleid rikkuvaid droone

Lieberg, E. Tartu Postimees 2025 / lk. 1 <https://dea.digar.ee/article/tartupostimees/2025/06/18/3>
<https://tartu.postimees.ee/8270802/tudengite-loodud-seiresusteem-aitab-tuvastada-reegleid-rikkuvaid-droone>

Tunnustatud noor insener Margus Sammelsaar meisterdab lennumasinaid ka vabal ajal

Kesküla, Marili saartehaal.postimees.ee 2024 [Tunnustatud noor insener Margus Sammelsaar meisterdab lennumasinaid ka vabal ajal](#)

Two-rate neural control of TUAV with coaxial rotor and ducted fan configuration for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris Proceedings of 9th International Conference 2012 ELEKTRO : May 21 - 22, 2012, Žilina-Rajecké Teplice, Slovakia 2012 / p. 159-164 : ill <https://ieeexplore.ieee.org/document/6225630>

UAV test benches

Pütsep, Kristjan 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 2022 / p. 21-22 : ill https://www.ester.ee/record=b5457278*est

UAV trajectory planning for disaster scenarios

Javed, Sadaf; Hassan, Ali; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab**; Rodrigues, Joel J. P. C. Vehicular Communications 2023 / art. 100568, 12 p. : ill <https://doi.org/10.1016/j.vehcom.2022.100568> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Universal navigation algorithm planning platform for unmanned systems

Sell, Raivo; Leomar, Priit Mechatronic systems and materials : mechatronic systems and robotics 2010 / p. 405-410 : ill https://www.researchgate.net/publication/243762582_Universal_Navigation_Algorithm_Planning_Platform_for_Unmanned_Systems

Unmanned aerial vehicle surveying for monitoring road construction earthworks

Julge, Kalev; Ellmann, Artu; Köök, Romet The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill <https://doi.org/10.7250/bjrbe.2019-14.430> http://www.ester.ee/record=b2222369*est <https://journals.vgtu.lt/index.php/BJRBE> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unmanned aerial vehicles and the international humanitarian law. Case study : Russia

Kohv, Marek; Chochia, Archil The Russian Federation in global knowledge warfare : influence operations in Europe and its neighbourhood 2021 / p. 213-231 https://doi.org/10.1007/978-3-030-73955-3_11 https://www.ester.ee/record=b5434182*est

Unustage saag ja kirves – metsas teevad nüüd tööd droonid ja tehisintellekt

Kartau, Mari ohtuleht.ee 2024 [Unustage saag ja kirves – metsas teevad nüüd tööd droonid ja tehisintellekt](#)

Using a fuzzy regulator to reduce noise

Shumski, Andrei; **Rassõlkin, Anton**; Autsou, Siarhei; Karpovich, Dzmitry; **Kallaste, Ants; Vaimann, Toomas** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818257>

Vesinikdroonid said tuule tiibadesse äriinkubaatoris

Reineberg, Lisete Tartu Postimees 2021 / Lk. 4 : fot <https://dea.digar.ee/article/tartupostimees/2021/05/27/7.13>

VTOL drone with tandem EDF motor and development of an algorithm for automatic stabilization in hover flight

Pütsep, Kristjan 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. 19-20 : ill https://www.ester.ee/record=b5504019*est

Värske doktoritöö: kuidas juhtida drooni, mis suudab manööverdada igas suunas?

digi.geenius.ee 2023 [Värske doktoritöö: kuidas juhtida drooni, mis suudab manööverdada igas suunas?](http://digikogu.taltech.ee/et/item/17167e2e-2c31-451c-834d-1da98160b2ce)
<http://digikogu.taltech.ee/et/item/17167e2e-2c31-451c-834d-1da98160b2ce>

Üliõpilaste idufirma ehitab droonituastuse võrgustiku

Imeline Teadus 2025 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

Многоскоростное управление автономными мультироторными дронами : моделирование и имитация

Astrov, Igor 2023 <https://tinyurl.com/2c59zavm>

Преподаватель Taltech рассказал, почему глушитель GPS влияет на авиасообщение

Arula, Eili; **Müürsepp, Ivo** rus.postimees.ee 2024 [Преподаватель Taltech рассказал, почему глушитель GPS влияет на авиасообщение](#)

Проректор ТТУ о вливании 11 млн евро в Metroserf: государство удабривает ветку, но пилит ствол

Koppel, Karin rus.err.ee 2025 <https://rus.err.ee/1609650182/prorektor-ttu-o-vlivanii-11-mln-evro-v-metroserf-gosudarstvo-udabrivaet-vetku-no-pilit-stvol>

Путину дает силы безнаказанность, альянсу стоило бы пригрозить России ударом по складам «шахедов»

Tsybulenko, Evhen rus.postimees.ee 2025 <https://rus.postimees.ee/8326173/cybulenko-putinu-daet-sily-beznakazannost-alyansu-stoilo-by-prigrozit-rossii-udarem-po-skladam-shahedov>

эффективное средство защиты от дронов-камикадзе еще только предстоит найти [Online resources]

rus.err.ee 2022 [AK.Nädal: эффективное средство защиты от дронов-камикадзе еще только предстоит найти](#)