

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>

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](#)

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; Gorbatoeva, 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](#)

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>

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>

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 / 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](https://digikogu.taltech.ee/et/Item/17167e2e-2c31-451c-834d-1da98160b2ce)

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

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

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 teadlaste juhtimisel luuakse droonilahendus terrorirünnaku ohvrite aitamiseks [Võrguväljaanne]

digi.geenius.ee 2021 ["Eesti teadlaste juhtimisel luuakse droonilahendus terrorirünnaku 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 / p. 259-262 : ill

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"](#)

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](#)

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>

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>

Innovatsioon keskkonnamõõtmises ühendab droonid ja vihmaussid

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

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>

Kuidas juhtida lihtsat, aga võimekat drooni?

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

Mehitamata lennumasinad

Luczkowski, Teodor Tehnikamaailm 2003 / 8, lk. 74-77 : ill

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 = Autonoomsete 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>

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>

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

Odavrobootika levik muudab lahinguvälja ja relvaturgu

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

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 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 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

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

Sommer, Reelika Eesti Päevaleht 2022 [Põlevad metsad vajavad päästmist. Eestlased pakuvad probleemile uudse lahenduse](https://www.ester.ee/record=b2337466*est)

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 <http://dx.doi.org/10.1002/esp.4199>

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._Tuhtan.J.A._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]

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 2011 / p. 63-68

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

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

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

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 http://www.ester.ee/record=b2222369*est <https://doi.org/10.7250/bjrbe.2019-14.430> <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

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>

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](#)