

Acceleration data acquisition and processing system for structural health monitoring

Herranen, Henrik; Kuusik, Alar; Saar, Tõnis; Reidla, Marko; Land, Raul; Märten, Olev; Majak, Jüri 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

Adaptive-rate inductive impedance based coin validation

Märten, Olev; Land, Raul; Gavrijaševa, Alina; Mölder, Ago 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) : Floriana, Malta, September 19-21, 2011 : proceedings 2011 / p. 122-125: ill

ADCS development for student CubeSat satellites - TalTech case study

Rassõlkin, Anton; Vaimann, Toomas; Org, Peeter; Leibak, Alar; Gordon, Rauno; Priidel, Eiko Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill <https://doi.org/10.3176/proc.2021.3.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advanced sensing materials based on molecularly imprinted polymers towards developing point-of-care diagnostics devices

Kidakova, Anna; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali Proceedings of the Estonian Academy of Sciences 2019 / p. 158–167 : ill <https://doi.org/10.3176/proc.2019.2.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in moving speaker acoustic localization for operation in distributed systems

Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-Sören Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 9-12 : ill

Aerodynamics of a triangular nozzle backpressure sensor : research report ME-1993-02

Reedik, Vello; Hindreus, Tiit 1993 https://www.ester.ee/record=b1065020*est

Affective analytics of demonstration sites

Kaklauskas, Arturas; Jokubauskas, D.; Cerkauskas, J.; Dzemyda, I.; Ubarte, Ieva Engineering applications of artificial intelligence 2019 / p. 346-372 : ill <https://doi.org/10.1016/j.engappai.2019.03.001>

Algorithms for learning and adaptation over networks - distributed leader selection = Õppimisalgoritmid hajutatud võrkude tarbeks - juhtsõlme hajus valimine

Ulp, Sander 2019 <https://digi.lib.ttu.ee/i/?11635>

Alumina/graphene/Cu hybrids as highly selective sensor for simultaneous determination of epinephrine, acetaminophen and tryptophan in human urine

Taleb, Masoud; Ivanov, Roman; Bereznev, Sergei; Kazemi, Sayed Habib; Hussainova, Irina Journal of electroanalytical chemistry 2018 / p. 184-192 : ill <https://doi.org/10.1016/j.jelechem.2018.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An integrated electroactive polymer sensor-actuator : design, model-based control, and performance characterization

Hunt, Andres; Chen, Zheng; Tan, K.; Kruusmaa, Maarja Smart materials and structures 2016 / art. 035016, p. 1-16 : ill <http://dx.doi.org/10.1088/0964-1726/25/3/035016>

An overview about electronic baby monitors used in sleep medicine [Võrguteavik] : data acquisition methods and electronic sensing principles

Kala, Raul; Min, Mart 2021 https://www.ester.ee/record=b5406071*est <https://digikogu.taltech.ee/et/Item/80428984-68a6-4f6c-94d1-f901b1248618>

Analysis of building sensor data to explain the experienced indoor room temperature

Crasta, Cletus J. 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. 211-212 : ill https://www.ester.ee/record=b5183874*est

Any dynamical system is fully accessible through one single actuator and related problems

Kawano, Yu; Kotta, Ülle; Moog, Claude International journal of robust and nonlinear control 2016 / p. 1748-1754 <http://dx.doi.org/10.1002/rnc.3379>

Apolipoprotein A-V interaction with members of the low density lipoprotein receptor gene family

Nilsson, Stefan; Lõokene, Aivar; Beckstead, Jennifer; Gliemann, Jorgen; Ryan, Robert; Olivecrona, Gunilla Biochemistry 2007 / 12, p. 3896-3904 : ill <https://pubs.acs.org/doi/10.1021/bi7000533#:~:text=Experiments%20using%20surface%20plasmon%20resonance.low%20density%20lipoprotein%20receptor%20family.>

Application of artificial intelligence in smart kitchen

Vu, Trieu Minh; Khanna, Riva International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 1-8 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.1-8>

Application-oriented performance characterization of the ionic polymer transducers (IPTs) = loonpolümeeridest täiturite võimekuse karakteriseerimine rakendusteks

Hunt, Andres 2017 <https://digi.lib.ttu.ee/i/?7576>

Arupuruarendaja Jürjo Preden: tajumatud arvutid meie ümber muudavad maailma paremaks

Preden, Jürjo-Sören Mente et Manu 2021 / lk. 14-19 : fot [Mente et Manu 1/2021 https://www.ester.ee/record=b1242496*est](https://www.ester.ee/record=b1242496*est)

Augmented coaching ecosystem for non-obtrusive adaptive personalized elderly care on the basis of cloud-fog-dew computing paradigm [Electronic resource]

Gordienko, Yuri; Stirenko, S.; Alienin, O.; Jervan, Gert 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), May 22 - 26, 2017, Opatija, Croatia : proceedings 2017 / p. 359-364 : ill. [CD-ROM] <https://doi.org/10.23919/MIPRO.2017.7973449>

Bioinspired whisker sensor for 3D mapping of underground mining environments

Gomez, Virgilio; Remmas, Mohamed Walid; Hernando, Miguel; Ristolainen, Asko; Rossi, Claudio Biomimetics 2024 / art. 83 <https://doi.org/10.3390/biomimetics9020083>

Capacitance measurement with MSP430 microcontrollers

Märtens, Olev; Pille, Siim; Reidla, Marko EDERC2014 : proceedings of the 6th European Embedded Design in Education and Research Conference, 11-12 September 2014, Milan, Italy 2014 / p. 260-263 : ill

Characterization of ice cover extent from MODIS imagery during different winter scenarios in the Gulf of Riga, Baltic Sea

Siitam, Laura; Uiboupin, Rivo; Sipelgas, Liis 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 127 http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf

Characterization of odor-active compounds of various pea preparations by GC-MS, GC-O, and their correlation with sensory attributes

Zhogoleva, Aleksandra; Alas, Maria; Rosenvald, Sirli Future foods 2023 / art. 100243 <https://doi.org/10.1016/j.fufo.2023.100243>

Chiral recognition by supramolecular porphyrin-hemicucurbit[8]uril-functionalized gravimetric sensors

Magna, Gabriele; Šakarašvili, Marko; Stefanelli, Manuela; Giancane, Gabriele; Bettini, Simona; Valli, Ludovico; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina; Monti, Donato; Di Natale, Corrado; Paolesse, Roberto ACS applied materials and interfaces 2023 / p. 30674-30683 <https://doi.org/10.1021/acsami.3c05177>

Chirp-based impedance spectroscopy of piezo-sensors

Saar, Tõnis; Märtens, Olev; Reidla, Marko; Ronk, Ants BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 339-342 : ill

Classification algorithm improvement for physical activity recognition in maritime environments

Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Leier, Mairo; Jervan, Gert World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol. 3) 2019 / p. 13-17 https://doi.org/10.1007/978-981-10-9023-3_3 Conference proceeding Article at Scopus Article at WOS

Compact multichannel device for differential impedance spectroscopy of microfluidic sensors [Online resource]

Ojarand, Jaan; Ehrminger, Robin Benjamin; Min, Mart; Koel, Ants BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <http://doi.org/10.1109/BEC.2018.8600955>

Compact smart home systems : design and verification of cost effective hardware solutions

Kuusik, Alar 2001 http://www.ester.ee/record=b1622134*est

Compact smart home systems : design and verification of cost effective hardware solutions

Kuusik, Alar 2001 http://www.ester.ee/record=b1578112*est

Comparing land and underwater gait characteristics with inertial measurement units

Monoli, Cecilia; Gasparini, Isabella; Piccinini, Luigi; Tuhtan, Jeffrey Andrew; Galli, Manuela 26th Congress of the European Society of Biomechanics, July 11-14, 2021, Milan, Italy : conference paper 2021 / 2 p. : ill https://www.researchgate.net/publication/353803400_Comparing_Land_and_Underwater_Gait_Characteristics_with_Inertial_Measurement_Units

Conductive polymers as active materials for environmental sensors

Sõritski, Vitali; Bereznev, Sergei; Öpik, Andres Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / 2, p. 60-72: ill

Construction and use of specific luminescent recombinant bacterial sensors for the assessment of bioavailable fraction of cadmium, zinc, mercury and chromium in the soil

Ivask, Angela; Virta, Marko; Kahru, Anne Soil biology and biochemistry 2002 / p. 1439-1447

Continuous, near-bed current velocity estimation using pressure and inertial sensing

Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja IEEE sensors journal 2019 / p. 12398 - 12406 : ill

<https://doi.org/10.1109/JSEN.2019.2937954> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Control of autonomous mobile robots using wireless network and MATLAB

Vu, Trieu Minh; Tamre, Mart; Hudjakov, Robert; Shvarts, Dmitry; Põlder, Ahti; Hiimaa, Mado; Juurma, Märt Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 235-240 : ill
<http://innomet.ttu.ee/daaam/>

Cubesat mission for multispectral Earth observation from low Earth orbit

Karmin, Martin; Ehrminger, Robin Benjamin; Shatov, J.; Mzhavia, Tornike; Vaher, Olev; Dihuliya, D.; Hiimaa, Mado; Tamre, Mart Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 128-133 : ill

Determination of carcinoembryonic antigen as a tumor marker using a novel graphene-based label-free electrochemical immunosensor

Jozghorbani, Maryam; Fathi, Mojtaba; Kazemi, Sayed Habib; Alinejadian, Navid Analytical biochemistry 2021 / art. 114017

<https://doi.org/10.1016/j.ab.2020.114017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Development of a flexible, extendable, and low-cost control unit for surface drifters

Giudici, Andrea; Torsvik, Tomas; Soomere, Tarmo Journal of atmospheric and oceanic technology 2017 / p. 669-677 : ill

<http://doi.org/10.1175/JTECH-D-16-0116.1>

Development of a portable MIP-based electrochemical sensor for detection of SARS-CoV-2 antigen

Raziq, Abdul; Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali Biosensors and bioelectronics 2021 / art. 113029 <https://doi.org/10.1016/j.bios.2021.113029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of conductive polymer materials for anti-corrosion and sensor applications

Öpik, Andres; Golovtsov, Igor; Idla, Katrin; Sõritski, Vitali Stambiamolekuliu junginiu chemija ir technologija = Polymer chemistry and technology 1997 / p. 133-142

Development of triangular nozzle backpressure sensors

Hindreus, Tiit; Reedik, Vello Socio-technical synergetics 2024 / p. 27-29 : ill https://www.ester.ee/record=b5651350*est

Differential pressure sensor speedometer for autonomous underwater vehicle velocity estimation

Meurer, Christian; Francisco Fuentes-Perez, Juan; Palomeras, Narcis; Carreras, Marc; Kruusmaa, Maarja IEEE Journal of Oceanic Engineering 2020 / p. 946 - 978 <https://doi.org/10.1109/JOE.2019.2907822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digitaalkaksikud diagnostika rakenduseks

Vaimann, Toomas Elektriala 2023 / lk. 24-25 https://www.ester.ee/record=b1240496*est

Digitaalne sensorplatvorm meditsiiniliseks diagnostikaks ja keskkonnaseireks

Mente et Manu 2018 / lk. 34 : ill 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

Digital Twin as a virtual sensor for wind turbine applications

Ibrahim, Mahmoud; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants; Zakis, Janis; Hyunh, Van Khang; Pomarnacki, Raimondas Energies 2023 / art. 6246 <https://doi.org/10.3390/en16176246>

Digital twin development of an EV-permanent magnet synchronous motor as a virtual torque sensor

Ibrahim, Mahmoud 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. 23-24 https://www.ester.ee/record=b5504019*est

Disturbance decoupling by measurement feedback : sensor location

Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey Proceedings of the Estonian Academy of Sciences 2016 / p. 317-329 : ill <http://dx.doi.org/10.3176/proc.2016.4.05>

Disturbance decoupling problem in finite automata : sensor location problem

Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey 2016 IEEE Conference on Control Applications (CCA) : part of 2016 IEEE Multi-Conference on Systems and Control, September 19-22, 2016, Buenos Aires, Argentina 2016 / p. 481-486 : ill <https://doi.org/10.1109/CCA.2016.7587876>

Durability performance of semiconductor strain gauges in GFRP laminate

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Proceedings of the 6th ECCOMAS Thematic Conference on Smart Structures and Materials, SMART 2013 : Turin, Italy, June 24-26, 2013 2013 / p. 1-14 : ill

Eddy current validation of Euro-coins

Gordon, Rauno; Märten, Olev; Land, Raul; Min, Mart; Rist, Marek; Gavrijaševa, Alina; Pokatilov, Andrei; Kolyskin, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 47-63 : ill

Eesti Nokia? Tehnikaülikooli teadlased valmistasid katseteks elektroonilised kalad

Rannamets, Anett Õhtuleht 2018 / lk. 5

Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda [Võrguväljaanne]

Tuhtan, Jeffrey Andrew novaator.err.ee 2020 / fot [Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda](#)

Eesti teadlaste seade tõhustab Covid-19 ravi

Postimees 2020 / Lk. 20 : portr https://www.ester.ee/record=b1072778*est

Electronically equipped beds used in sleep medicine : data acquisition methods and electronic sensing principles

Kala, Raul 2016 https://www.ester.ee/record=b4603613*est

Elektrilisel bioimpedantsil põhinev sensor jälgib kopsude ja südame tööd

Mente et Manu 2021 / lk. 30-31 : portr [Mente et Manu 2/2021](#)

Enhanced sensing properties of cobalt bis-porphyrin derivative thin films by a magneto-plasmonic-opto-chemical sensor

Colombelli, A.; Manera, Maria Grazia; **Borovkov, Victor;** Giancane, Gabriele Sensors and actuators B : chemical 2017 / p. 1039-1048 : ill <https://doi.org/10.1016/j.snb.2017.01.192>

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin Synthetic metals 1999 / p. 1326-1327: ill

Evaluating RuleCore as event processing network model

Astrova, Irina; Koschel, Arne; Kobert, Sebastian Proceedings of the 15th International Conference on Web Information Systems and Technologies, WEBIST 2019, Vienna, Austria, September 18-20, 2019. Vol. 1 2019 / p. 297-300 : ill <https://doi.org/10.5220/0008192302970300>

Evaluation of level-crossing ADCs for event-driven ECG classification

Saeed, Maryam; Wang, Qingyuan; **Märten, Olev** IEEE Transactions on Biomedical Circuits and Systems 2021 / p. 1129-1139 <https://doi.org/10.1109/TBCAS.2021.3136206> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental synergetics

Reedik, Vello Socio-technical synergetics 2024 / p. 16-21 : ill https://www.ester.ee/record=b5651350*est

Experiments with travelling wave transients for verification of suitability of sensor

Kütt, Lauri; Järvik, Jaan 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. 149-152 : ill

Fall detection and activity recognition system for usage in smart work-wear [Online resource]

Leier, Mairo; Jervan, Gert; Allik, Ardo; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600959>

Fast impedance spectroscopy of piezosensors for structural health monitoring

Märten, Olev; Saar, Tõnis; Min, Mart; Land, Raul; Reidla, Marko Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 31-34 : ill

Feedback control of a coupled IPMC (Ionic Polymer-Metal Composite) sensor-actuator

Hunt, Andres; Tan, Xiaobo; Chen, Zheng; **Kruusmaa, Maarja** Proceedings of ASME Dynamic Systems Control Conference : California, USA, 12-14.10.2009 2009 / ? p <https://asmedigitalcollection.asme.org/DSCC/proceedings/DSCC2009/48920/485/346423>

FerryBoxes within Europe : state-of-the-art and integration in the European Ocean Observation System (EOOS) [Online

resource]

Petersen, W.; Colijn, F.; Gorringer, P.; Kaitala, S.; Karlson, B.; King, A.; **Lips, Urmas** Operational oceanography serving sustainable marine development : proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 63-70 : ill <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

First principles simulations of phenol and methanol detector based on pristine graphene nanosheet and armchair graphene nanoribbons

Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas Sensors 2019 / art. 2731, 14 p. : ill <https://doi.org/10.3390/s19122731>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flow feature extraction for underwater robot localization : preliminary results

Muhammad, Naveed; Strokina, Nataliya; Toming, Gert; Tuhtan, Jeffrey Andrew; Kämäräinen, Joni-Kristian; Kruusmaa, Maarja 2015 IEEE International Conference on Robotics and Automation (ICRA) : Washington State Convention Center, Seattle, Washington, May 26-30, 2015 / p. 1125-1130 : ill <http://dx.doi.org/10.1109/ICRA.2015.7139317>

Flow sensing and pumping using flexible permanent magnet beams

Kruusing, Arvi; Mikli, Valdek The 8th International Conference on Solid-State Sensors and Actuators and Eurosensors IX : digest of technical papers : June 25-29, 1995, Stockholm, Sweden. Vol. 2, Sessions A7-D13, papers no 232-496 1995 / p. 299-302

Flow sensing and pumping using flexible permanent magnet beams

Kruusing, Arvi; Mikli, Valdek Sensors and actuators 1996 / p. 59-64

Flow sensing with pressure sensor-based artificial lateral lines : from the laboratory to the field = Veevoolu tajumine rõhusensoritel baseeruvate küljejooneanduritega : laborist välikatseteni

Fuentes-Pérez, Juan Francisco 2019 <https://digi.lib.ttu.ee/i/?12014>

Formal specification of sensors

Kuusik, Alar; Vain, Jüri Ringhääling '99 : VI Rahvusvahelise Telekommunikatsioonipäeva konverentsi ettekannete materjalid 1999 / lk. 80-83

Hapniku, vesinikperoksiidi ja superoksiidiooni elektrookeemiliste reaktsioonide uurimine õhukestel metallkatetel amperomeetriteliste sensorite väljatöötamiseks

Tammeveski, K.; Tenno, T. XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 135-137

High-frequency current sensor for power network on-line measurements

Kütt, Lauri; Järvik, Jaan; Vaimann, Toomas; Shafiq, Muhammad; Lehtonen, Matti; Kilter, Jako Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 1 2012 / p. 367-371 : ill https://www.researchgate.net/publication/262674502_High-Frequency_Current_Sensor_for_Power_Network_On-line_Measurements

Home based monitoring system with wireless sensors that confirm stable balance and motor function readings during remission is feasible for patients with multiple sclerosis

Gross-Paju, Katrin; Maamägi, Heigo; Reilent, Enar; Kuusik, Alar Journal of the neurological sciences 2017 / p. 436
<https://doi.org/10.1016/j.jns.2017.08.3444>

How important are the wind measurements and is it reasonable to save from wind measurements costs?

Pertmann, Indrek 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 161-163 : ill

Humidity and SO2 gas sensor based on QCM coated with polypyrrole films

Sõritski, Vitali; Õpik, Andres Finnish Chemical Congress and Exhibition, Helsinki, November 3-5, 1998 : abstracts 1998 / p. 10

Hydrodynamic classification of natural flows using an artificial lateral line and frequency domain features

Tuhtan, Jeffrey Andrew; Strokina, Nataliya; Toming, Gert; Muhammad, Naveed; Kruusmaa, Maarja; Kämäräinen, Joni-Kristian E-proceedings of the 36th IAHR World Congress : 28 June - 3 July, 2015, The Hague, the Netherlands 2015 / p. 1-8 : ill

Hyperspectral camera with polarized filter as modern supersensor device for cyber-physical systems [Online resource]

Jürise, Martin; Udal, Andres; Kaugerand, Jaanus; Sell, Raivo BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill
<https://doi.org/10.1109/BEC.2018.8600957>

Hyperspectral image band selection using pooling

Liyanage, Dhanushka Chamara; Hudjakov, Robert; Tamre, Mart 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviewed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 <https://doi.org/10.1109/MSM49833.2020.9201714>

Identification and location of PD defects in medium voltage underground power cables using high frequency current transformer

Shafiq, Muhammad; **Kiitam, Ivar; Taklaja, Paul; Kütt, Lauri**; Kauhaniemi, Kimmo; **Palu, Ivo** IEEE Access 2019 / art. 8771171, p. 103608 - 103618 : ill <https://doi.org/10.1109/ACCESS.2019.2930704> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An improved cooperative team spraying control of a diffusion process with a moving or static pollution source

Chen, Juan; Cui, Baotong; Chen, YangQuan; Zhuang, Bo IEEE/CAA Journal of Automatica Sinica 2020 / p. 494 - 504 : ill <https://doi.org/10.1109/JAS.2019.1911519>

Inertial and positioning sensors fusion for indirect location tracking in warehouse inventory management

Fjodorov, Aleksei; Ulp, Sander; **Alam, Muhammad Mahtab**; Kuusik, Alar 2023 International Conference on Control, Automation and Diagnosis (ICCAD) 2023 / p. 1-7 <https://doi.org/10.1109/ICCAD57653.2023.10152404>

Inseneride ja arstide loodud nutikorsett tõhustab vildakselgsuse ravi [Võrguväljaanne]

postimees.ee 2022 [Inseneride ja arstide loodud nutikorsett tõhustab vildakselgsuse ravi](#)

Intelligent kitchen model for smart homes

Vu, Trieu Minh; Khanna, Riva Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 203-208 : ill <http://innomet.ttu.ee/daaam/>

Interference and priority aware coexistence (IPC) algorithm for link scheduling in IEEE 802.15.6 based WBANs

Khan, Fawad Nawaz; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab**; Drieberg, Micheal IEEE Access 2019 / art. 8910561, p. 168736–168751 : ill [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Intradialytic on-line multicomponent reduction ratio monitoring in spent dialysate by a novel miniaturized optical sensor

Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; **Fridolin, Ivo**; Luman, Merike Nephrology Dialysis Transplantation 2019 / p. 643-644 <https://doi.org/10.1093/ndt/gfz102.SuO012>

Intradialytic on-line multicomponent total removed solutes monitoring in spent dialysate by a novel miniaturized optical sensor

Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; Luman, Merike; **Fridolin, Ivo** International journal of artificial organs 2019 / p. 415-416 <https://journals.sagepub.com/doi/10.1177/0391398819860985>

Kaks minutit, mis päästavad elu. Eestlased „koolitavad” termokaamera tulekahjuanduriks [Võrguväljaanne]

Jõesaar, Tuuli epl.delfi.ee 2022 ["Kaks minutit, mis päästavad elu. Eestlased „koolitavad” termokaamera tulekahjuanduriks"](#)

Keemiliste nanoninade tulek

Aav, Riina Horisont 2020 / lk. 20-25 : fot https://www.ester.ee/record=b1072243*est

Keila-Joal katsetati kalasensoreid

Gnadenteich, Uwe Postimees 2018 / lk. 7

Keskkonnasensorid juhtivatel polümeeridel = Environmental sensors based conductive polymers

Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 17-18 https://www.ester.ee/record=b1070511*est

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

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

Kunstnina

Kasemaa, Argo Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 95-102 : ill

Lead and Cu in contaminated urban soils : extraction with chemical reagents and bioluminescent bacteria and yeast

Peltola, Pasi; **Ivask, Angela**; Aström, Mats; Virta, Marko Science of the total environment 2005 / 1/3, p. 193-203 : ill <https://www.sciencedirect.com/science/article/pii/S0048969705000707>

Lidar-camera semi-supervised learning for semantic segmentation

Caltagirone, Luka; **Bellone, Mauro**; Svensson, Lennart; Wahde, Mattias; **Sell, Raivo** Sensors 2021 / art. 4813

Luminescent recombinant sensor bacteria for the analysis of bioavailable heavy metals

Ivask, Angela 2006 https://www.ester.ee/record=b2158067*est

Magnetic field sensor coil in fast transient measurement application

Kütt, Lauri; Järvi, Jaan 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 / p. 117-121 : ill

Magnetic sensor coil shape geometry and bandwidth assessment

Kütt, Lauri; Shafiq, Muhammad 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 58-61 : ill

Map-based localization and loop-closure detection from a moving underwater platform using flow features

Muhammad, Naveed; Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Toming, Gert; Kruusmaa, Maarja; Musall, Mark Autonomous robots 2019 / p. 1419-1434 : ill <https://doi.org/10.1007/s10514-018-9797-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Measurement of vibration parameters of extended structures by integretion sensors

Zaletin, Valeri Proceedings of the International EAA/EEAA Symposium : Transport Noise and Vibration, Tallinn, 8.06 - 10.06. 1998 / p. 65-68

Merevee taseme mõõtmise madala hinnaklassi GNSS-sensoriga

Koobak, Johanna; Varbla, Sander; Ellmann, Artu Geodeet 2022 / lk. 19-25 : ill http://www.ester.ee/record=b1072198*est

Method for data collection and integration into 3D architectural model

Kurik, Lembit; Sinivee, Veljo; Lints, Martin; Kallavus, Urve Innovations and advances in computer, information, systems sciences, and engineering 2013 / p. 707-717 : ill

Microprinted carbon aerogel electrodes for sensors and actuators

Põldsalu, Inga; Peikolainen, Anna-Liisa; Greco, Francesco; Kreek, Kristiina; Aabloo, Alvo TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Middleware for wireless sensor networks

Pahtma, Raido Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK viienda aastakonverentsi artiklite kogumik : 25.-26. novembril 2011, Nelijärve 2011 / p. 55-57

Miniature acceleration sensors

Kruusing, Arvi Proceedings of Maintenance, Condition Monitoring and Diagnostics - International Seminar held in October 2-3, 2000 in Oulu, Finland 2000 / p. 141-147

Mobile cyber-physical system for monitoring the health of patients with cardiovascular diseases

Hovorushchenko, Tetiana; Hryshchuk, Illia; Hovorushchenko, Olha; Rei, Kostyantyn; Boyarchuk, Artem CITRisk 2022 : Computational & Information Technologies for Risk-Informed Systems 2022 : Proceedings of the 3rd International Workshop on Computational & Information Technologies for Risk-Informed Systems (CITRisk 2022)co-located with XXII International scientific and technical conference on Information Technologies in Education and Management (ITEM 2022) 2022 / p. 86 - 95 <https://ceur-ws.org/Vol-3422/Paper8.pdf> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Mobile photogrammetry for positioning measuring sensors

Sinivee, Veljo; Kurik, Lembit; Kallavus, Urve BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 227-230 : ill

Modelling of an inductive sensor of the Foucault cardiogram

Vedru, Jüri; Gordon, Rauno; Humal, Leo Henn; Trolla, Jaanus Estonian journal of engineering 2011 / 3, p. 252-270 : ill

Molecularly imprinted polymer-based electrochemical sensor for detection of azoxystrobin in aqueous media

Nguyen, Vu Bao Chau; Reut, Jekaterina; Söritski, Vitali Graduate school of functional materials and technologies scientific conference 2023 2023 / 1 p <https://fntdk.ut.ee/programm-2023/>

Molecularly imprinted polymer-based SAW sensor for label-free detection of cerebral dopamine neurotrophic factor protein

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Saarma, Mart; Söritski, Vitali Sensors and actuators B : chemical 2020 / art. 127708, 8 p. : ill <https://doi.org/10.1016/j.snb.2020.127708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based sensor for electrochemical detection of erythromycin

Ayankojo, Akinrinade George; Reut, Jekaterina; Ciocan, Valeriu; Öpik, Andres; Söritski, Vitali Talanta 2020 / art. 120502, 9 p. : ill <https://doi.org/10.1016/j.talanta.2019.120502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymers as advanced sensing materials for detection of neurotrophic factor proteins

Reut, Jekaterina; Kidakova, Anna; Boroznjak, Roman; Öpik, Andres; Söritski, Vitali 6th International Conference on Bio-Sensing Technology, 16-19 June 2019, Kuala Lumpur, Malaysia : program 2019 / P2.64
<https://www.elsevier.com/events/conferences/international-conference-on-bio-sensing-technology>

Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin

Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Söritski, Vitali Sensors and actuators B : chemical 2018 / p. 766-774 : ill <https://doi.org/10.1016/j.snb.2017.11.194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Monitoring patient movement velocity using passive infrared sensor information

Ehala, Johannes; Astapov, Sergei Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 21-24 : ill

Multichannel electrical impedance spectroscopy analyzer with microfluidic sensors

Ojarand, Jaan; Min, Mart; Koel, Ants Sensors 2019 / art. 1891, 28 p. : ill <https://doi.org/10.3390/s19081891> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A multiplexed FBG based sensor platform for flow and temperature measurements in the Baltic Sea

Dzipsalski, A.; Morton, J. A. S.; Papachristou, N.; Maier, R. R. J.; MacPherson, W. N.; **Ristolainen, Asko; Kruusmaa, Maarja**; Reilent, E.; **Suhhova, Irina; Lips, Urmas** Proceedings of SPIE - The International Society for Optical Engineering 2023 / art. 1264307-1 : ill <https://doi.org/10.1117/12.2679756>

Multi-species assessment of injury, mortality, and physical conditions during downstream passage through a large Archimedes hydrodynamic screw (Albert Canal, Belgium)

Pauwels, Ine S.; Baeyens, Raf; **Toming, Gert; Tuhtan, Jeffrey Andrew** Sustainability 2020 / art. 8722, 25 p. : ill <https://doi.org/10.3390/su12208722> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanotechnology in military development

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. International journal of chemical, nuclear, materials and metallurgical engineering 2014 / p. 1121-1125 : ill

Neerupuudulikkusega inimeste elu võib tänu Eesti teadlastele paraneda

digi.geenius.ee 2023 [Neerupuudulikkusega inimeste elu võib tänu Eesti teadlastele paraneda](#)

Network coding for energy efficient transmission in Wireless Body Area Networks

Talha, Sadaf; Rizwan, Ahmad; Adnan, K. Kiani; **Alam, Muhammad Mahtab** Procedia computer science 2017 / p. 435-440 : ill <https://doi.org/10.1016/j.procs.2017.08.285>

New developments in separation science will help to contribute to the democratisation of analytical chemistry

Kaljurand, Mihkel; Ružička, Martin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina Microchemical journal 2023 / Art. 109443 <https://doi.org/10.1016/j.microc.2023.109443>

Numerical simulation and experimental verification of downstream fish migration in a bulb turbine

Benigni, Helmut; Schneider, Josef; **Reckendorfer, Walter**; Schiffer, J.; **Tuhtan, Jeffrey Andrew**; Leithner, S.; Zenz, Gerald; Meusburger, P. 31st IAHR Symposium on Hydraulic Machinery and Systems 26/06/2022 - 01/07/2022 Trondheim, Norway. Vol. 1079 2022 / 10 p. : ill <https://doi.org/10.1088/1755-1315/1079/1/012101> [Conference proceedings at Scopus](#) [Article at Scopus](#)

On the turbidity dynamics in the near-bottom layer of the Gulf of Finland

Buschmann, Fred; Suhhova, Irina; Liblik, Taavi; Lips, Urmas The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 16 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Online urea concentration estimation from spent dialysate using optical sensor

Pilt, Kristjan; Arund, Jürgen; Adoberg, Annika; Leis, Liisi; Luman, Merike; **Fridolin, Ivo** XV Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019 : proceedings of MEDICON 2019, September 26-28, 2019, Coimbra, Portugal 2020 / p. 1459-1464 https://doi.org/10.1007/978-3-030-31635-8_180 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Operating wireless sensor nodes without energy storage : experimental results with transient computing

Ahmed, Faisal; Ahmed, Tauseef; Muhammad, Yar; **Le Moullec, Yannick; Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill <http://dx.doi.org/10.3390/electronics5040089>

Operational in situ oil spill detection in the Baltic Sea, using FerryBox system equipped with oil sensor [Online resource]
Kõuts, Tarmo; Pärt, Siim; Vahter, Kaimo International Conference Operational Oceanography Serving Sustainable Marine Development : 3-5 October 2017, Bergen, Norway : book of abstracts 2017 / p. 50
http://eurogoos.imr.no/resources/EuroGOOS_Conference_2017_BoA.pdf

Operational in situ oil spill detection in the Baltic Sea, using FerryBox system equipped with oil sensor [Online resource]
Kõuts, Tarmo; Pärt, Siim; Vahter, Kaimo Operational oceanography serving sustainable marine development : Proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 169-172 : ill
<http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

Operational in situ oil spill detection in the Baltic sea using FerryBox system equipped with oil sensor
Pärt, Siim; Kõuts, Tarmo; Vahter, Kaimo 7th IEEE/OES Baltic Symposium Clean and Safe Baltic Sea and Energy Security for the Baltic countries : Abstract book, 12-15 June 2018, Klaipėda, Lithuania 2018 / p. 51 http://apc.ku.lt/balticvalley/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.pdf

Optimal parameters of fluidic non contact sensors for drives of exact positioning
Leschenko, V.; Pochtar, J.; **Reedik, Vello** Proceedings of the Fifth Cranfield Fluidics Conference 1972 / p. J3-29 - J3-40

A PD-type iterative learning algorithm for semi-linear distributed parameter systems with sensors/actuators
Zhang, Jianxiang; Cui, Baotong; Jiang, Zhengxian; **Chen, Juan** IEEE Access 2019 / p. 159037-159047 : ill
<https://doi.org/10.1109/ACCESS.2019.2950456> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phenol and methanol detector based on pristine graphene nano-sheet: a first principles study [Online resource]
Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill
<https://doi.org/10.1109/BEC.2018.8600982>

Photo- and electropolymerization approaches for molecular imprinting of a neurotrophic factor protein
Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 43 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Photopolymerized molecularly imprinted polymer tailored for electrochemical detection of brain-derived neurotrophic factor on screen-printed electrodes
Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali EUPOC 2018 : Biomimetic Polymers by Rational Design, Imprinting and Conjugation : 20 - 24 May 2018, Como, Social Como Theatre : abstract booklet & list of participants [p.o. participants] 2018 / P22, p. 76 : ill [EUPOC 2018](#)

Practical application of polyaniline as active material of humidity sensors
Bereznev, Sergei; Öpik, Andres Tallinna Tehnikaülikooli Toimetised 1994 / lk. 28-34: ill

Practical E-field sensors for EMP testing
Klüss, Joni; **Hyvönen, Petri** ICHVE 2014 : 2014 International Conference on High Voltage Engineering and Application : 8-11 September 2014, Poznan, Poland 2014 / [4] p. : ill

Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting
Kidakova, Anna; Reut, Jekaterina; Rappich, Jörg; Öpik, Andres; Sõritski, Vitali Reactive and functional polymers 2018 / p. 47-56
<https://doi.org/10.1016/j.reactfunctpolym.2018.02.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prostate specific antigen-imprinted film on SPR sensor surface by combining the microcontact imprinting method and the surface initiated photopolymerization
Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [221] : ill

Protein-responsive polymer film prepared via combined use of controlled/living radical photopolymerization and microcontact imprinting [Online resource]
Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

Real-time gait anomaly detection using SVM time series classification
Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab; Ahmadov, Ulvi 2023 International Wireless Communications and Mobile Computing (IWCMC) 2023 / p. 1389-1394 <https://doi.org/10.1109/IWCMC58020.2023.10182666>

Regular monograin layers as optical sensors in robotics
Lukjantšikova, N.; **Melikov, Enn; Hiie, Jaan; Varema, Tiit; Iljina, Natalja; Kuk, Peeter-Enn** 11th International Symposium on Photon-Detectors, Weimar, September, 11-13, 1984 1984 / S. 27

Relation learning with bar charts

Lints, Taivo IA'09 : IEEE Symposium on Intelligent Agents : Nashville, Tennessee, US, March 30-April 2, 2009 / p. 77-83
<https://ieeexplore.ieee.org/document/4927503>

Researching moisture content in the massive limestone walls of medieval churches with the use of microwave sensors

Kurik, Lembit The Final Research Report of the project "Sustainable Management of Historic Rural Churches in the Baltic Sea Region (SMC)" 2013 / p. 79-101 : ill

R-Kiosk открывает первый в Эстонии магазин без персонала [Online resources]

dv.ee 2022 [R-Kiosk открывает первый в Эстонии магазин без персонала](#)

Rogowski coil : an efficient current measurement sensor for power system applications

Shafiq, Muhammad 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 / p. 7-8 : ill https://www.eester.ee/record=b5504019*est

Scalable open platform for reliable medical sensorics = Laiendatav avatud platvorm usaldusväärsete meditsiiniliste sensorite jaoks

Leier, Mairo 2016

Self-aware fog computing in private and secure spheres

Tammemäe, Kalle; Jantsch, Axel; **Kuusik, Alar**; Preden, Jürjo-Sören; **Õunapuu, Enn** Fog computing in the internet of things : intelligence at the edge 2018 / p. 71-99 : ill http://www.eester.ee/record=b4692402*est https://doi.org/10.1007/978-3-319-57639-8_5

Sensing drifters for glacial hydrology measurements

Alexander, Andreas; **Kruusmaa, Maarja**; **Tuhtan, Jeffrey Andrew**; Hodson, Andreas J. Svalbard Science Conference 2019 : book of abstracts 2019 / p. 50 <https://www.forskningsradet.no/contentassets/f464e19d364c40b59170a1956a98e747/book-of-abstracts-ssc2019.pdf>

Shape classification using hydrodynamic detection via a sparse large-scale 2D-sensitive artificial lateral line

Wolf, Ben J.; Pirihi, Primož; **Kruusmaa, Maarja**; Van Netten, Sietse M. IEEE Access 2020 / p. 11393 - 11404
<https://doi.org/10.1109/ACCESS.2020.2965316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shooter localization by networked multichannel acoustic ground sensors

Astapov, Sergei; **Berdnikova, Julia**; **Ehala, Johannes**; **Preden, Jürjo-Sören** 2015 IEEE International Conference on Signal and Image Processing Applications (ICSIPA) : Kuala Lumpur, Malaysia, 19-21 October 2015 : [proceedings] 2015 / p. 332-337 : ill
<http://dx.doi.org/10.1109/ICSIPA.2015.7412214>

Shooter localization by networked multichannel acoustic ground sensors

Astapov, Sergei; **Berdnikova, Julia**; **Ehala, Johannes**; **Preden, Jürjo-Sören** IEEE ICSIPA 2015 : 2015 IEEE International Conference on Signal and Image Processing Applications (ICSIPA) : 19-21 October, 2015, Hotel Pullman Kuala Lumpur Bangsar : program book 2015 / p. 46

Simple DSP interface for impedance spectroscopy of piezo-sensors

Märtens, Olev; **Reidla, Marko**; **Saar, Tõnis** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 343-344 : ill

Simulations of benzene and hydrogen-sulfide gas detector based on single-walled carbon nanotube over intrinsic 4H-SiC substrate

Rashid, Muhammad Haroon; **Koel, Ants**; **Rang, Toomas**; **Ziko, Mehadi Hasan** Micromachines 2020 / art. 453, 13 p. : ill
<https://doi.org/10.3390/mi11050453> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A small-size sleep apnea pre-screening prototype for neonates and children

Leier, Mairo; **Jervan, Gert** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 49-52 : ill

Smart elbow brace with electromyography sensors

Vu, Trieu Minh; **Tamre, Mart**; **Moezzi, Reza**; Safonov, Aleksei; Musalimov, Victor Sensor letters 2018 / p. 924-930
<https://doi.org/10.1166/sl.2018.4045>

Smart sensor systems using impedance spectroscopy

Tränkler, Hans-Rolf; Kanoun, Olfa; **Min, Mart**; **Rist, Marek** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 4, p. 455-478 : ill

Subsurface flow path modeling from inertial measurement unit sensor data using infinite hidden Markov models

Piho, Laura; **Kruusmaa, Maarja** IEEE sensors journal 2022 / p. 621-630 : ill <https://doi.org/10.1109/JSEN.2021.3128838> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey on the roles of communication technologies in IoT-based personalized healthcare applications
Alam, Muhammad Mahtab; Malik, Hassan; Khan, Muhidul Islam; Pardy, Tamas; Kuusik, Alar; Le Moullec, Yannick IEEE Access 2018 / p. 36611-36631 : ill <https://doi.org/10.1109/ACCESS.2018.2853148> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tallinna katab üks võrk, mis salvestab kõike

Einama, Kaido Director. Inseneeria 2019 / lk. 50-55 : fot http://www.ester.ee/record=b2336521*est

TalTechi aasta parim arendus on südametöö sensor, mis muuhulgas tõhustab COVID-19 patsientide seisundi jälgimist ja ravi [Võrguväljaanne]

tervise.geenius.ee 2021 ["TalTechi aasta parim arendus on südametöö sensor"](#)

TalTechi peahoones avatakse automatiseeritud minipood [Võrguväljaanne]

Kald, Indrek ituudised.ee 2022 [TalTechi peahoones avatakse automatiseeritud minipood](#)

TalTechis avati Eesti esimene ilma kassa ja teenindajateta pood

Mente et Manu 2022 / lk. 7 : fot https://www.ester.ee/record=b1242496*est

Teaduspreemia tehnikateaduste alal tööde tsükli " Molekulaarselt jälgendatud polümeerid : kaasaegsed biomimeetilised sensormaterjalid meditsiiniliseks diagnostikaks ja keskkonnaseireks" eest : Vitali Sõritski

Sõritski, Vitali Eesti Vabariigi preemiad 2023 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2023 / lk. 92-107 : portr https://www.ester.ee/record=b1226072*est

Terased tehiskõrvad naastrehvide peilimiseks

Vill, Ants Director. Inseneeria 2021 / lk. 62-67 : fot https://www.ester.ee/record=b1519314*est <https://director.ee/2020/12/27/terased-tehiskorvad-naastrehvide-peilimiseks/>

The benefits of self-awareness and attention in fog and mist computing

Preden, Jürjo-Sören; Tammemäe, Kalle; Jantsch, Axel; Leier, Mairo; Riid, Andri; Calis, Emine Computer 2015 / p. 37-45 : ill

The intriguing story of bis-porphyrins in chemical sensors

Bettini, Simona; **Borovkov, Victor**; Giancane, Gabriele; Grover, Nikita; Mattern, Cornelia; Ottolini, Michela; Pagano, Rosanna; Senge, Mathias O.; Valli, Ludovico Twelfth International Conference on Porphyrins and Phthalocyanines : ICPP-12 : book of abstracts 2022 / p. 235 http://www.icpp-spp.org/img_icpp12/ICPP-12%20BOA.pdf

The role of the central metal ion of ethane-bridged bis-porphyrins in histidine sensing

Bettini, Simona; Pagano, Rosanna; **Borovkov, Victor**; Giancane, Gabriele; Valli, Ludovico Journal of colloid and interface science 2019 / p. 762-770 : ill <https://doi.org/10.1016/j.jcis.2018.08.116>

TiO₂:Sm³⁺ based luminescent oxygen sensitive probes in LDPE packaging material

Tikk, Taavi; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres**; Jaaniso, Raivo; Kiisk, Valter; Lange, Sven Proceedings of the Estonian Academy of Sciences 2017 / p. 450-454 : ill <https://doi.org/10.3176/proc.2017.4.16>

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

Meurer, Christian; Fuentes-Perez, Juan Francisco; Schwarzwald, 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](#)

Ultraheli reedab materjalide nähtamatud vigastused

Ratassepp, Madis; Lints, Martin Horisont 2022 / lk. 48-52 : fot https://www.ester.ee/record=b1072243*est

Ultrasound sensor in integrated presence detection system

Kuusik, Alar Telekommunikatsioon '98 : rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid, 15. mai 1998 1998 / lk. 79-83: ill

Underwater bioinspired sensing: New opportunities to improve environmental monitoring

Tuhtan, Jeffrey Andrew; Nag, Saptarshi; Kruusmaa, Maarja IEEE instrumentation & measurement magazine 2020 / p. 30-36 <https://doi.org/10.1109/MIM.2020.9062685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater vehicle speedometry using differential pressure sensors : preliminary results [Online resource]

Fuentes-Pérez, Juan Francisco; Kalev, Kaia; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja Autonomous Underwater Vehicles 2016 : AUV 2016 : 6-9 November 2016 : IIS, the University of Tokyo, Tokyo, Japan 2016 / p. 156-160 : ill <https://doi.org/10.1109/AUV.2016.7778664>

Use of high resolution sea level measurements for height transfer in the West-Estonian archipelago

Liibusk, Aive; **Ellmann, Artu; Kõuts, Tarmo** The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1374-1381 : ill

Uudne sensor aitab C-hepatiiti senisest varem avastada [Võrguväljaanne]

Harrik, Airika novaator.err.ee 2022 "[Uudne sensor aitab C-hepatiiti senisest varem avastada](#)"

Veelekkesensor – tuvastab veelekk sinu kodus!

Tiitma, Helen Studioosus 2013 / lk. 16

Wide range input current measurement circuit for switching step down DC-DC regulator

Mihhailov, Juri; Strik, Sergei PRIME 2012 : Aachen, Germany : Session TG3–Analog DC 2012 / p. 209-212 : ill
<https://ieeexplore.ieee.org/document/6226162>

Wireless sensing in road structures using passive RFID tags

Kõrbe Kaare, Kati; Koppel, Ott; Kuhi, Kristjan Estonian journal of engineering 2012 / p. 314-323 : ill

Vision based sensor analysis for mobile robots

Malayjerdi, Ehsan 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. 97-98 : ill
https://www.ester.ee/record=b5183874*est

Visualization of the sensor's switching process

Neve, R.S.; **Reedik, Vello** Socio-technical synergetics 2024 / p. 21-23 : ill https://www.ester.ee/record=b5651350*est

Флуоресцентный pH-биосенсор для контроля биотехнического гидролиза пенициллина. Оптимизация измерения сигнала пенициллина

Käärd, Arvo; Швелленбах А.; Каше В.; Renken, E. Журнал аналитической химии 1993 / 2, с. 306-312