

**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](#)

**Advanced FFT and block-phase beamforming for sensor arrays**

Ruuben, Toomas Proceedings of the conference "Undersea Defense Technology Europe 2005" : June 21-23, 2005, Amsterdam 2005 / p. ?

**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

**Advantages of low-cost LiDAR sensors in surveying underground utility networks**

Jerjomina, Angelina; Varbla, Sander Tunnelling and underground space technology 2024 / art. 106325 <https://doi.org/10.1016/j.tust.2024.106325>

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

Reedik, Vello; Hindreus, Tiit 1993 [https://www.ester.ee/record=b1065020\\*est](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> [https://www.ester.ee/record=b5204290\\*est](https://www.ester.ee/record=b5204290*est)

**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 <https://doi.org/10.1088/0964-1726/25/3/035016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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://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](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 <https://doi.org/10.1002/rnc.3379> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Nilsson, Stefan; **Löökene, 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/ii/?7576> [https://www.ester.ee/record=b4670806\\*est](https://www.ester.ee/record=b4670806*est)

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

### **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

### **Ceramic humidity sensors with intelligent tester of informative parameters**

Dunets, B.; Kravtsiv, M.; Vynnyk, I.; Kovalskiy, A.; Shpotyuk, O. BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 245-246: 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](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, 14 p. : ill  
<https://doi.org/10.1016/j.fufo.2023.100243> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chemical sensors based on conductive polymers**

**Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres** Kemia 95 : Finnish Chemical Congress and Exhibition and Nordic Polymer Meeting 1995, Helsinki, 14-16 Nov., 1995 : abstracts 1995 / p. 49-50

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

### **Chirp-based impedance spectroscopy pf 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](https://doi.org/10.1007/978-981-10-9023-3_3) [Conference proceeding](#) [Article at Scopus](#) [Article at WOS](#)

### **CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving**

**Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; Sell, Raivo** IEEE Transactions on Intelligent Vehicles 2024 / 12 p

**CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving : preprint**

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; Sell, Raivo arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2404.17793>

**CMOS SP chip for resistor type semiconductor gas sensors**

Kasemaa, Argo; Rang, Toomas The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 255-256 : ill

**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](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](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](https://www.researchgate.net/publication/353803400_Comparing_Land_and_Underwater_Gait_Characteristics_with_Inertial_Measurement_Units)

**Comparison of operating modes of air-core inductive sensors for partial discharge on-line diagnostics in medium voltage networks**

Kütt, Lauri; Shafiq, Muhammad; Lehtonen, Matti; Mölder, Heigo; Järvi, Jaan Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 29.1-29.6 : ill  
<https://research.aalto.fi/en/publications/comparison-of-operating-modes-of-air-core-inductive-sensors-for-p>

**Conductive polymers as active materials for environmental sensors**

Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres; Idla, Katrin International Society of Electrochemistry, 47th Annual Meeting : abstracts : Veszprém & Balatonfüred, Hungary, September 1-6, 1996 1996 / p. P2c-10

**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, Maido; 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, Maido; Tamre, Mart Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 128-133 : ill

**Design of an Iddq current sensor built of current devices**

Spacek, Vladimir; Molnar, Jozef; Stopjakova, Viera; Weber, Bedrich BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 179-182: ill

**Design of high-frequency transient current sensor for powerline on-line measurement**

Kütt, Lauri; Järvi, Jaan; Kilter, Jako; Shafiq, Muhammad; Lehtonen, Matti Electrical and control technologies : proceedings of the 7th international conference on electrical and control technologies ECT-2012 2012 / p. 212-216 : ill  
<https://research.aalto.fi/en/publications/design-of-high-frequency-transient-current-sensor-for-powerline-o>

## **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/> <https://doi.org/10.11590/icon.2023.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **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  
<https://doi.org/10.1175/JTECH-D-16-0116.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **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; Söritski, 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; Söritski, Vitali** Stambiamolekulių junginių 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](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](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://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://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html) [https://artiklid.elnet.ee/record=b2868932\\*est](https://artiklid.elnet.ee/record=b2868932*est)

## **Digital Twin as a virtual sensor for wind turbine applications**

**Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants;** Zakis, Janis; Hyunh, Van Khang; Pomarnacki, Raimondas Energies 2023 / art. 6246 <https://doi.org/10.3390/en16176246> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Mohamed, Mahmoud Ibrahim Hassanin** 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](https://www.ester.ee/record=b5504019*est)

## **Direct electrochemical sensing of ampicillin in aqueous media by a ruthenium oxide electrode decorated with a molecularly imprinted polymer**

**Nguyen, Vu Bao Chau; Reut, Jekaterina; Ayankojo, Akinrinade George; Söritski, Vitali** Talanta 2025 / art. 127580  
<https://doi.org/10.1016/j.talanta.2025.127580>

## **Disturbance decoupling by measurement feedback**

**Kaldmäe, Arvo; Kotta, Ülle** 19th IFAC World Congress on International Federation of Automatic Control, IFAC 2014 2014 / p. 7735-7740 : ill <https://doi.org/10.3182/20140824-6-za-1003.00216> [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **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 <https://doi.org/10.3176/proc.2016.4.05> [https://artiklid.elnet.ee/record=b2808632\\*est](https://artiklid.elnet.ee/record=b2808632*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **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 / 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 Öhtuleht 2018 / lk. 5 <https://www.ohhtuleht.ee/878583/eesti-nokia-tehnikaulikooli-teadlased-valmistasid-katseteks-elektroonilised-kalad>

### **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](https://www.ester.ee/record=b1072778*est)

### **Electronically equipped beds used in sleep medicine : data aquisition methods and electronic sensing principles**

Kala, Raul 2016 [https://www.ester.ee/record=b4603613\\*est](https://www.ester.ee/record=b4603613*est) <https://digikogu.taltech.ee/et/Item/3797c427-0fe6-4c41-89d4-629f5908b6a4>

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

### **Enhancing UWB and multi-sensor positioning with ML-based uncertainty estimation = Üilairiba ja mitme sensoriga positsioneerimissüsteemide täpsuse parandamine masinõppe meetodil**

**Tommingas, Mihkel** 2025 [https://www.ester.ee/record=b5748107\\*est](https://www.ester.ee/record=b5748107*est) <https://digikogu.taltech.ee/et/Item/7703d05c-98d7-48a6-939d-ab766de4d1c6> <https://doi.org/10.23658/taltech.35/2025>

### **Environmental QCM sensors coated with polypyrrole**

**Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin** International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160 <https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

### **Environmental QCM sensors coated with polypyrrole**

**Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin** International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160 <https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

### **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 sensory device used for touching an object**

Purcaru, Dorina-Mioara BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 59-62: ill

### **Experimental synergetics**

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

**Märtens, 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 2015 / p. 1125-1130 : ill <https://doi.org/10.1109/ICRA.2015.7139317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Flow sensing and pumping using flexible permanent magnet beams**

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

### **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 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 elektrokeemiliste reaktsioonide uurimine õhukestel metallkatetel amperomeetriliste 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 mea[s]urements**

**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](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; Öpik, Andres** Finnish Chemical Congress and Exhibition, Helsinki, November 3-5, 1998 : abstracts 1998 / p. 10

### **Humidity sensors based on vanadium-metal-oxygen layers deposited from gels**

Bondarenka, V.; Grebinskij, S.; Mickevicius, S.; Tvardauskas, H.; Martunas, Z.; Volkov, V.; Zakharova, G. BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 247-250: ill

### **Hybrid driven digital twin modelling framework for an EV propulsion drive system**

Ibrahim, Mahmoud; Rassölkin, Anton IET Intelligent Transport Systems 2025 / art. e70099 <https://doi.org/10.1049/itr2.70099> Scopus

### **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

### **Hydrodynamic pressure sensing with an artificial lateral line in steady and unsteady flows**

Venturelli, Roberto; Ježov, Jaas; Toming, Gert; Kruusmaa, Maarja Bioinspiration & biomimetics 2012 / 12 p. : ill

<https://pubmed.ncbi.nlm.nih.gov/22498729/>

### **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>

### **Information techniques for sensor- and microsystems**

Holmer, R.; Tränkler, Hans-Rolf BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 39-50: ill

### **Inseneride ja arstide loodud nutikorsett tõhustab vildakselgsuse ravi [Võrguväljaanne]**

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

### **Intelligence system for design and investigation mechanical values sensors**

Shmakov, E.M.; Matveev, V.A.; Molotov, S.V. BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 261-269: ill

### **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](https://www.ester.ee/record=b1072243*est)

**Keila-Joal katsetati kalasensoreid**

Gnadenteich, Uwe Postimees 2018 / lk. 7

**Keskkonnasensoorid 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](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](#) [Кристьян Табри и Хейго Мольдер: морскую инфраструктуру могли бы охранять роботы](#)

**Kunstnina**

**Kasemaa, Argo** Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 95-102 : ill [https://www.ester.ee/record=b1399956\\*est](https://www.ester.ee/record=b1399956*est)

**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 <https://doi.org/10.3390/s21144813> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Luminescent recombinant sensor bacteria for the analysis of bioavailable heavy metals**

**Ivask, Angela** 2006 [https://www.ester.ee/record=b2158067\\*est](https://www.ester.ee/record=b2158067*est)

**Magnetic current sensor stray components in high frequency operation and their effects**

**Kütt, Lauri; Järvik, Jaan; Mölder, Heigo; Kilter, Jako;** Shafiq, Muhammad Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 617-620 : ill <https://ieeexplore.ieee.org/abstract/document/6221451>

**Magnetic field sensor coil in fast transient measurement application**

**Kütt, Lauri; Järvik, 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 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](#)

**Maximum likelihood estimation of nominal direction of arrival and angular spread using an array of sensors**

**Trump, Tõnu;** Ottersten, B. Proceedings COST 229 Final Workshop on Adaptive Systems, Intelligent Approaches, Massively Parallel Computing and Emergent Techniques in Signal Processing and Communications, Oct. 1994, Bayona (Vigo), Spain 1994 / p. 77-82 [https://www.researchgate.net/publication/2686731\\_Maximum\\_Likelihood\\_Estimation\\_of\\_Nominal\\_Direction\\_of\\_Arrival\\_and\\_Angular\\_Spread\\_Using\\_an\\_Array\\_of\\_Sensors](https://www.researchgate.net/publication/2686731_Maximum_Likelihood_Estimation_of_Nominal_Direction_of_Arrival_and_Angular_Spread_Using_an_Array_of_Sensors)

**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 1998 / p. 65-68

### **Merevee taseme mõõtmine madala hinnaklassi GNSS-sensoriga**

**Koobak, Johanna; Varbla, Sander; Ellmann, Artu** Geodeet 2022 / lk. 19-25 : ill [http://www.ester.ee/record=b1072198\\*est](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 [https://doi.org/10.1007/978-1-4614-3535-8\\_59](https://doi.org/10.1007/978-1-4614-3535-8_59) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **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

### **Modeling and computerized investigation of surface Acoustic wave resonator sensors**

Valinevicius, Algimantas BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 455-456

### **Modelling of an inductive sensor of the Foucault cardiogram**

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

### **Modern monitoring opportunities in shopfloor**

**Aruväli, Tanel; Otto, Tauno; Preden, Jürjo-Sören** Annals of DAAAM for 2010 & proceedings of the 21st International DAAAM Symposium "Intelligent Manufacturing & Automation : Focus on Interdisciplinary Solutions" : 20-23rd October 2010, Zadar, Croatia 2010 / p. 989 - 990 : ill [https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings\\_2010/24167\\_Symp\\_1\\_head.pdf](https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2010/24167_Symp_1_head.pdf)

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

**Nguyen, Vu Bao Chau; Reut, Jekaterina; Sõritski, Vitali** Graduate school of functional materials and technologies scientific conference 2023 2023 / 1 p <http://fntdk.ut.ee/wp-content/uploads/2023/05/Nguyen.pdf>

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

**Nguyen, Vu Bao Chau; Reut, Jekaterina; Rappich, Jörg; Hinrichs, Karsten; Sõritski, Vitali** Polymers 2024 / art. 1394 <https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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; Sõritski, 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; Sõritski, 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; Sõritski, 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 polymers: towards development of chemosensors for medical diagnostics and environmental monitoring**

**Sõritski, Vitali** XV Loodusteaduskonna Teaduskonverents 2023 / 34 p. <https://taltech.ee/loodusteaduskond/teaduskonna-teaduskonverents> <https://doi.org/10.48726/1y9d6-46543>

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

**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, 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 2023 / art. 1264307-1 : ill <https://doi.org/10.1117/12.2679756> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **A multiplexed reconfigurable modular FBG-based sensor platform for flow and temperature measurements in the North Sea**

Dzipsalski, Adrian; Morton, Jonathan A. S.; Papchristou, Nikolitsa; Maier, Robert R. J.; MacPherson, William N.; **Ristolainen, Asko; Reilent, Enar; Kruusmaa, Maarja**; Wolf, Ben J.; Pirihi, Primoz; Van Netten, Sietse M.; **Suhhova, Irina; Lips, Urmas**; McFarlane, Nathan; MacLeod, Robert; Hendry, Mark; Sheehy, Jack; Almoghayer, Mohammed; Rojas, Natalia; Davies, Gareth Proceedings of SPIE 2024 / 6 p <https://doi.org/10.1117/12.3031643> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **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> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

**Kaljurand, Mihkel; Ružicka, Martin; Gorbatošova, Jelena; Mazina-Šinkar, Jekaterina** Microchemical journal 2023 / Art. 109443 <https://doi.org/10.1016/j.microc.2023.109443> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A novel approach for aquatic gait analysis using wearable inertial and hydrodynamic pressure sensors = Uudne lähenemisviis veealuse kõnnaku analüüsiks, kasutades kantavaid inertsiaalseid ja hüdrodünaamilisi rõhuandureid**

**Monoli, Cecilia** 2024 [https://www.ester.ee/record=b5685206\\*est](https://www.ester.ee/record=b5685206*est) <https://digikogu.taltech.ee/et/Item/f6ca5db2-99f6-48c2-98f8-c6ae343ddf7f> <https://doi.org/10.23658/taltech.22/2024>

### **A Novel Vision Transformer for Camera-LiDAR Fusion based Traffic Object Segmentation**

**Tahves, Toomas; Gu, Junyi; Bellone, Mauro; Sell, Raivo** Proceedings of the 17th International Conference on Agents and Artificial Intelligence : Volume 2 2025 / p. 566-573 <https://doi.org/10.5220/0013239000003890>

### **Number of effective bits for smart sensor as ADC with non-electrical input**

**Land, Raul** Proceedings of the 10th IMEKO TC-4 International Symposium on Development in Digital Measuring Instrumentation and 3rd Workshop on ADC Modelling and Testing, 17-18 Sept. 1998, Naples, Italy. Vol. 1 1998 / p. 434-438

### **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;

### **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](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](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 Moulllec, Yannick; Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill <https://doi.org/10.3390/electronics5040089> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](http://apc.ku.lt/balticvalley/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.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 [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](http://eurogoos.imr.no/resources/EuroGOOS_Conference_2017_BoA.pdf)

### **Optical heartbeat sensor**

Rubins, U.; Spigulis, Janis BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 53-56: ill

### **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

### **Optimal waveform selection for software defined data acquisition system**

**Ruuben, Toomas; Berdnikova, Julia; Mürsepp, Ivo; Madar, Urve** Proceedings of the Fourth European Conference on Antennas and Propagation : EuCAP 2010 : Barcelona, Spain, 12-16 April 2010 2010 / p. 3268-3272 <https://ieeexplore.ieee.org/document/5505286>

### **Parameters identification and modeling of high-frequency current transducer for partial discharge measurements**

Shafiq, Muhammad; **Kütt, Lauri;** Lehtonen, Matti; Nieminen, Tatu; Hashmi, Murtaza IEEE sensors journal 2013 / p. 1081-1091 : ill <https://doi.org/10.1109/JSEN.2012.2227712> [https://www.academia.edu/101513170/Parameters\\_Identification\\_and\\_Modeling\\_of\\_High\\_Frequency\\_Current\\_Transducer\\_for\\_Partial\\_Discharge\\_Measurements](https://www.academia.edu/101513170/Parameters_Identification_and_Modeling_of_High_Frequency_Current_Transducer_for_Partial_Discharge_Measurements) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Perovskite QDs embedded in polymer as a wavelength-shifting layer for UV-sensitized silicon sensors**

Sosna-Glebska, Aleksandra; Rezek, Bohuslav; Ukrainsev, Egor; **Sibinski, Maciej** Journal of luminescence 2024 / art. 120618 <https://doi.org/10.1016/j.jlumin.2024.120618> [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://fmdtk.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](#)

**Proceedings of the 9th Baltic Mechatronics Symposium, Tallinn, May 15, 2024**

2024 <https://aaltoodoc.aalto.fi/server/api/core/bitstreams/6903c9fa-3834-4eb4-8a37-13efc0e5b2d2/content>

**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/>

**Range sensor overview and blind-zone reduction of autonomous vehicle shuttles**

**Gu, Junyi; Chhetri, Tek Raj** IOP conference series : materials science and engineering 2021 / art. 012006, 7 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012006>

**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.; Mellikov, 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 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

**Resolution and Doppler tolerance of cognitive system waveforms**

**Berdnikova, Julia; Ruuben, Toomas; Mürsepp, Ivo; Lossmann, Eerik** Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 101-104 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/9331>

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

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

**A robust adaptive sensor array with slepian sequences [Electronic resource]**

**Trump, Tõnu** The Seventh IEEE Sensor Array and Multichannel Signal Processing Workshop : June 17-20, 2012, Hoboken, New York, USA 2012 / p. 121-124 : ill [CD-ROM] <https://ieeexplore.ieee.org/document/6250444>

**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 2022 / p. 7-8 : ill [https://www.ester.ee/record=b5504019\\*est](https://www.ester.ee/record=b5504019*est)

**Ruthenium oxide electrode integrated with molecularly imprinted polymer for direct electrochemical sensing of a neurotrophic factor protein**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Sõritski, Vitali** Sensors and Actuators B: Chemical 2025 / art. 137301 <https://doi.org/10.1016/j.snb.2025.137301>

**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.ester.ee/record=b4692402\\*est](http://www.ester.ee/record=b4692402*est) [https://doi.org/10.1007/978-3-319-57639-8\\_5](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>

**Sensor resonance and its influence on the measurement results of fast transients**

**Kütt, Lauri; Shafiq, Muhammad; Lehtonen, Matti; Mölder, Heigo; Järvi, Jaan** Proceedings of the International Conference on Power Systems Transients (IPST2013) in Vancouver, Canada July 18-20, 2013 2013 / [7] p.: ill [https://www.ipstconf.org/papers/Proc\\_IPST2013/13IPST134.pdf](https://www.ipstconf.org/papers/Proc_IPST2013/13IPST134.pdf)

**Sensors and systems for product data and product identification in CIM**

Henoch, Bengt BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 51-64 : ill

**Sensortehnoloogia põhised kiibid on Eesti võimalus : Alar Kuusik: „Ootan väga, et ühiskonnas tuleks tagasi vastuvõtlikkus uutele, ka radikaalsetele lahendustele ja reformidele.“**

**Kuusik, Alar** sirp.ee 2025 <https://www.sirp.ee/sensortehnoloogia-pohised-kiibid-on-est-voimalus/>

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

Wolf, Ben J.; Piri, 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

**Some aspects of combining trellis coded modulation with tomlinson pre-equalization**

**Trump, Tõnu**; Forssen, U. 1993

**Specification of hybrid components of control systems**

**Vain, Jüri; Kuusik, Alar; Käärmees, Marko** Preprints of the 5th IFAC Workshop on Intelligent Manufacturing Systems IMS'98, November 9-11 1998, Gramado - RS, Brazil 1998 / p. 83-88: ill <https://www.sciencedirect.com/science/article/pii/S147466701741007X>

**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](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 IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis**  
mu.ee 2024 [TalTechi IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis](#) [IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis](#)

**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](https://www.ester.ee/record=b1242496*est)

**Terased tehiskõrvad naastrehvide peilimiseks**  
Vill, Ants Director. Inseneeria 2021 / lk. 62-67 : fot [https://www.ester.ee/record=b1519314\\*est](https://www.ester.ee/record=b1519314*est) <https://director.ee/2020/12/27/terased-tehiskõrvad-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 <https://doi.org/10.1109/MC.2015.207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The dynamics of signals with spread spectrum in sensor arrays [Electronic resource]**  
**Ruuben, Toomas** UDT Europe 2002 : Undersea Defence Technology : conference and exhibition 2002 / [9] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4458732>

**The effective number of bits of analog sensors**  
Breitenbach, Arvid; **Tammemägi, Jaak** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 63-66: ill

**The influence of the changes of wave propagation speed on sensor arrays [Electronic resource]**  
**Ruuben, Toomas** UDT Europe 2003 : Undersea Defence Technology : conference & exhibition, Malmö, Sweden, 24-26 June 2003 : conference proceedings 2003 / [10] p. : ill. [CD-ROM]

**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](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>

**The software for artificial nose**  
Misans, Peteris; Shirs, Juris BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 343-346: ill

**TiO<sub>2</sub>:Sm<sup>3+</sup> 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> [https://artiklid.elnet.ee/record=b2830833\\*est](https://artiklid.elnet.ee/record=b2830833*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Towards optimal quantization in multistage audio coding**

**Vafin, Renat;** Kleijn, W.B. Proc IEEE Int. Conf. Acoustics, Speech, Signal Processing : ICASSP 2004 : Montreal, Canada, 2004. Vol. 4 2004 / p. 205-208 <https://ieeexplore.ieee.org/document/1326799>

### **Two methods for estimating the signal-to-noise ratio of distance sensors**

Breitenbach, Arvid; **Land, Raul** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 117-120: ill

### **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](#)

### **Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti**

digi.geenius.ee 2024 [Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti](#)

### **Ultraheli reedab materjalide nähtamatud vigastused**

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

### **Ultrasonic sensors - an intelligent sensor principle for many applications**

Magori, V. BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 65-70: ill

### **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**

Liibus, Aive; **Ellmann, Artur; 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 veelekke 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](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](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

