

**Aasta vilistlane Mart Min: sügised aastatel 1992 ja 2020 on üsna sarnasteks osutunud**

**Min, Mart** Mente et Manu 2020 / lk. 60-61 : portr <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

**AC measurement converters : analog and digital solutions**

**Märtens, Olev** 2000 [http://www.ester.ee/record=b1707866\\*est](http://www.ester.ee/record=b1707866*est)

**Acceleration data acquisition and processing system for structural health monitoring**

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

**Acoustic forward model for guided wave propagation and scattering in a pipe bend**

**Rasgado Moreno, Carlos Omar; Rist, Marek; Land, Raul; Ratassepp, Madis** Sensors 2022 / art. 486

<https://doi.org/10.3390/s22020486> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Acoustic spectrum analysis of genuine and counterfeit euro coins**

**Gavrijaševa, Alina; Märtens, Olev; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 54-

57 : ill <https://doi.org/10.5755/j01.eee.21.3.10384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Active electrodes for measuring the electrical bioimpedance**

**Metshein, Margus** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 57-60 : ill

**Active-passive two-way ranging protocol for positioning systems = Aktiiv-passiivne kauguste mõõtmise protokoll positsioneerimissüsteemidele**

**Laadung, Taavi** 2023 <https://doi.org/10.23658/taltech.26/2023> <https://digikogu.taltech.ee/et/Item/e9906a57-6c88-4a98-860e-d2c567a3109c>  
[https://www.ester.ee/record=b5567510\\*est](https://www.ester.ee/record=b5567510*est)

**Active-passive two-way ranging using UWB**

**Laadung, Taavi; Ulp, Sander; Alam, Muhammad Mahtab; Le Moullec, Yannick** 2020, 14th International Conference on Signal Processing and Communication Systems, (ICSPCS) December 14-16, 2020 – Virtual Conference : proceedings 2020

<https://doi.org/10.1109/ICSPCS50536.2020.9309999>

**Adaptive algorithm for cardiac period normalization in time**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul; Uuetoa, Tiina; Lamp, Jürgen** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 66

**Adaptive Extended Kalman Filter position estimation based on Ultra-Wideband Active-Passive Ranging Protocol**

**Laadung, Taavi; Ulp, Sander; Fjodorov, Aleksei; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Access 2023 / p. 92575-92588 <https://doi.org/10.1109/ACCESS.2023.3308696> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Adaptive LINE-P : an adaptive linear energy prediction model for wireless sensor network nodes**

**Ahmed, Faisal; Tamberg, Gert; Le Moullec, Yannick; Annus, Paul** Sensors 2018 / art. 1105, 26 p. : ill

<https://doi.org/10.3390/s18041105> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Adaptively undersampled image processing for fast multiline laser detection**

**Mölder, Ago; Märtens, Olev; Saar, Tõnis; Land, Raul** 2013 IEEE 8th International Symposium on Intelligent Signal Processing (WISP 2013) : proceedings 2013 / p. 60-64 : ill [CD-ROM]

**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](#)

**ADS-B in space : decoder implementation and first results from the GATOSS mission**

**Knudsen, Bjarke Gosvig; Jensen, Morten; Christiansen, Johan; Le Moullec, Yannick** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 57-60 : ill

**Aerial base station assisted cellular communication : performance and trade-off**

**Sharma, Navuday; Kumar, Atul; Alam, Muhammad Mahtab; Jindal, Anish; Imran, Muhammad Ali** IEEE Transactions on Network Science and Engineering 2021 / p. 2765-2779 <https://doi.org/10.1109/TNSE.2021.3052984> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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)

## **Alternatives of measurement of electrical bioimpedance of the body with the aim to determine the cardiac and respiratory activity**

Metshein, Margus BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 197-200 : ill

## **An attempt to separating cardiac and respiratory components from EBI dataset through conventional filtering method**

Mughal, Yar M. Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 61-64 : ill

## **An extended block-adaptive Fourier analyser for analysis and reproduction of periodic components of band-limited discrete-time signals**

Ronk, Ants 2002 [http://www.ester.ee/record=b1688702\\*est](http://www.ester.ee/record=b1688702*est)

## **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>

## **Analog front end components for bio-impedance measurement : current source design and implementation = Bioimpedantsi mõõteseadme analoogosa komponendid : vooluallika disain ja realiseerimine**

Kasemaa, Argo 2011 <https://digi.lib.ttu.ee/i/?590>

## **Analysis of barrier inhomogeneities of P-type Al<sub>4</sub>H-SiC Schottky barrier diodes**

Ziko, Mehadi Hasan; Koel, Ants; Rang, Toomas; Toompuu, Jana Silicon Carbide and Related Materials 2019 : Selected peer-reviewed papers from International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), September 29 - October 4, 2019, Kyoto, Japan Materials science forum 2020 / p. 960-972 <https://doi.org/10.4028/www.scientific.net/MSF.1004.960>  
[Conference proceedings at Scopus](#) [Article at Scopus](#)

## **Analysis of deep level centers in GaAs pin-diode structures**

Korolkov, Oleg; Toompuu, Jana; Rang, Toomas Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / [4 p. ] : ill <https://doi.org/10.5755/j01.eee.19.10.5903> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Analysis of deep level spectrum in GaAs p<sup>+</sup>-p-i-n<sup>+</sup> structures**

Toompuu, Jana; Sleptsuk, Natalja; Korolkov, Oleg; Rang, Toomas Materials characterization VII 2015 / p. 283-294 : ill

## **Analysis of instantaneous cardiac EBI signal variability over the heart cycle(s) : non-linear time-scale approach**

Krivošei, Andrei; Min, Mart; Annus, Paul; Kõiv, Hip; Aabloo, Alvo; Uuetoa, Tiina EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 940-943 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_235](https://doi.org/10.1007/978-981-10-5122-7_235)  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **Analyzing and investigating encrypted traffic for social media application Instagram**

Iqbal, Hameed; Ahmad, Rizwan; Ahmed, Waqas; Qazi, Shams; Alam, Muhammad Mahtab 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935603>

## **Analyzing meta-heuristic algorithms for task scheduling in a fog-based IoT application**

Rahbari, Dadmehr Algorithms 2022 / art. 397 <https://doi.org/10.3390/a15110397> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Analytical evaluation of indoor energy harvesting technologies for WSNs with FYPsim framework**

Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul; Mustufa, Y. S. Ashad 2016 International Conference on Industrial Informatics and Computer Systems (CIICS) : March 13-15, 2016, Dubai, UAE 2016 / [6] p. : ill <https://doi.org/10.1109/ICISII.2016.7462423>

## **Antidictionary-based cardiac arrhythmia classification for smart ECG sensors**

Duforest, Julien; Larras, Benoit; Frappe, Antoine; Deepu, John Deepu; Märten, Olev 2022 IEEE International Symposium on Circuits and Systems (ISCAS) : proceedings 2022 / p. 414-418 : ill <https://doi.org/10.1109/ISCAS48785.2022.9937853> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **Application of artificial neural networks to model the interaction between T-cells and B-cells and their equivalent impedance of the linearized model**

Giannoukos, Georgios; Min, Mart Journal of computational methods in sciences and engineering 2015 / p. 295-302 <https://doi.org/10.3233/JCM-150544> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Application of power line communication technology in street lighting control**

**Farkas, Tekla D.; Kiraly, Tamás; Pardy, Tamas; Rang, Toomas; Rang, Galina** International journal of design and nature and ecodynamics 2018 / p. 176–186 : ill <https://doi.org/10.2495/DNE-V13-N2-176-186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

### **Approaches for improving VoIP QoS in WMNs**

**Meeran, Mohammad Tariq; Annus, Paul; Le Moullec, Yannick** 2017 International Conference on Electrical Engineering and Computer Science (ICECOS 2017) : Palembang, Indonesia, 22-23 August 2017 / p. 22-27 : ill <https://doi.org/10.1109/ICECOS.2017.8167138>

### **Architectural design space exploration of an FPGA-based compressed sampling engine : application to wireless heart-rate monitoring**

**El-Sayed, Mohammad; Koch, Peter; Le Moullec, Yannick** 2015 Nordic Circuits and Systems Conference (NORCAS) : NORCHIP & International Symposium on System-on-Chip (SoC) : 1st IEEE NORCAS Conference : 26-28 October 2015, Oslo, Norway 2015 / [5] p. : ill <http://dx.doi.org/10.1109/NORCHIP.2015.7364369>

### **Area efficient design and implementation of a novel divider circuit block = Uudne efektiivne jagamistehte riistvaraline realiseatsioon**

**Patankar, Udayan Sunil** 2025 [https://www.ester.ee/record=b5746970\\*est](https://www.ester.ee/record=b5746970*est) <https://digikogu.taltech.ee/et/Item/bada7a0d-f54f-48bb-844d-37e23ad8d029> <https://doi.org/10.23658/taltech.29/2025>

### **Area efficient hexadecimal divider circuit implementation based on USP-awadhoot division algorithm**

**Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil M.; Flores, Miguel E.** IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC) 2021 / p. 1-8 <https://doi.org/10.1109/ICE/ITMC52061.2021.9570263>

### **Assessment of the proportion of anthropogenic underwater noise levels in passiveacoustic monitoring**

**Mustonen, Mirko; Klauson, Aleksander; Berdnikova, Julia; Tommingas, Mihkel** Proceedings of Meetings on Acoustics 2018 / art. 070003, 10 p.: ill <https://doi.org/10.1121/2.0000939>

### **At-speed self-testing of high-performance pipe-lined processing architectures [Electronic resource]**

**Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart** 31st Norchip Conference : Vilnius, Lithuania, 11-12 November 2013 : conference program and papers 2013 / p. 1-6 : ill [USB]

### **Automatic detection of multisize pulmonary nodules in CT images : large-scale validation of the false-positive reduction step**

**Gupta, Anindya; Saar, Tõnis; Märten, Olev; Le Moullec, Yannick** Medical physics 2018 / p. 1135-1149 : ill <https://doi.org/10.1002/mp.12746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Automatic detection of real and imaginary parts of electrical impedance with single synchronous demodulation channel**

**Annus, Paul; Priidel, Eiko; Land, Raul; Metshein, Margus; Krivošei, Andrei; Min, Mart; Ratassepp, Madis; Märten, Olev** 8th European Medical and Biological Engineering Conference : Proceedings of the EMBEC 2020, November 29 - December 3, 2020 Portorož, Slovenia 2021 / p. 151-157 [https://doi.org/10.1007/978-3-030-64610-3\\_18](https://doi.org/10.1007/978-3-030-64610-3_18) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Automatic NLOS classification from virtual 3D city models**

**Mürsepp, Ivo; Alam, Muhammad Mahtab** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 190-195 <https://doi.org/10.1109/FMEC59375.2023.10306158>

### **Autonomous wireless sensor networks : implementation of transient computing and energy prediction for improved node performance and link quality**

**Ahmed, Faisal; Kervadec, Corentin; Le Moullec, Yannick; Tamberg, Gert; Annus, Paul** The Computer Journal 2019 / p. 820 - 837 <https://doi.org/10.1093/comjnl/bxy101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Availability and variations of cardiac activity in the case of measuring the bioimpedance of wrist**

**Metshein, Margus; Annus, Paul; Land, Raul; Min, Mart; Aabloo, Alvo** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409684>

### **BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia**

2012 [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

### **BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics**

**Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia**

2014 [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia**

2016 [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**Beyond 5G/6G EMF considerations**

Benn, Andrew; Fellan, Amina; Kosmatos, Evangelos; Mohr, Werner; **Roosipuu, Priit**; Verrios, Panayiotis 2023

<https://doi.org/10.5281/zenodo.8099834>

**Beyond 5G/6G KPIs and target values : Version 1.0-June 2022**

**Nielsen, Lars**; Gavras, Anastasius; Dieudonne, Michael; Mesogiti, Ioanna; **Roosipuu, Priit**; Houatra, Drissa; Kosmatos, Evangelos

2022 <https://doi.org/10.5281/zenodo.6577506>

**Bioimpedance and spectroscopy**

2021 <https://doi.org/10.1016/C2018-0-04440-0>

**Bioimpedance sensing - a viable alternative for tonometry in non-invasive assessment of central aortic pressure**

**Min, Mart; Annus, Paul; Kõiv, Hip; Krivošei, Andrei**; Uettoa, Tiina; Lamp, Jürgen 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA) : May 7-10, 2017, Rochester, MN, USA : proceedings papers 2017 / p. 373-378 : ill

<https://doi.org/10.1109/MeMeA.2017.7985905>

**Bioimpedance sensors : instrumentation, models, and applications**

Naranjo-Hernández, David; Reina-Tosina, Javier; Buendía, Rubén; **Min, Mart** Journal of Sensors 2019 / art. 5078209

<https://doi.org/10.1155/2019/5078209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A bio-impedance signal simulator (BISS) for research and training purposes**

**Muhammad, Yar; Le Moulec, Yannick; Annus, Paul; Krivošei, Andrei** 2015 26th Irish Signals and Systems Conference (ISSC) :

Institute of Technology Carlow, Ireland, June 24-25, 2015 2015 / [4] p. : ill <https://doi.org/10.1109/ISSC.2015.7163746>

**Bioimpedance spectro-tomography system using binary multifrequency excitation [Online resource]**

**Min, Mart**; Lehti-Polojärvi, M.; Hyttinen, Jari; **Rist, Marek; Land, Raul; Annus, Paul** International journal of bioelectromagnetism

Proceedings of the 11th International Conference on Bioelectromagnetism : 23-25 May 2018, Aachen, Germany 2018 / p. 76-79 : ill

<http://www.ijbem.org/> <https://publications.rwth-aachen.de/record/723893/files/723893.pdf>

**Biopsy needle including bioimpedance probe with optimized sensitivity distribution**

Mäki, Sanna; Kari, Juho; Ahonen, Petri; Elomaa, Timo; **Annus, Paul**; Kronström, Kai The 10th International Conference on

Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**Biopsy needle including bioimpedance probe with optimized sensitivity distribution**

Hälonen, Sanna; Kari, Juho; Ahonen, Petri; Elomaa, Timo; **Annus, Paul**; Kronström, Kai International journal of bioelectromagnetism

2015 / p. 26-30 : ill

**Biosensing technologies for the detection of pathogens : a prospective way for rapid analysis**

2018 <https://doi.org/10.5772/intechopen.69579>

**Biosensors for environmental monitoring**

2019 <https://doi.org/10.5772/intechopen.73763>

**Body Area Networks. Smart IoT and Big Data for Intelligent Health : 15th EAI International Conference, BODYNETS 2020, Tallinn, Estonia, October 21, 2020 : proceedings**

2020 <https://doi.org/10.1007/978-3-030-64991-3>

**Body fat proportion estimation by the segmental bioelectrical impedance analysis of forearm**

**Metshein, Margus**; Tuulik, Varje-Riin; Tuulik, Viuu; **Min, Mart**; Kumm, Monika; **Annus, Paul**; **Märtens, Olev** 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) : proceedings 2024 / 5 p

<https://doi.org/10.1109/I2MTC60896.2024.10560671> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Body-to-Body communication : applications, system design aspects and performance evaluation**

**Khan, Rida; Alam, Muhammad Mahtab** The 12th International Symposium on Medical Information and Communication Technology : ISMICT 2018, 26-28 March 2018, University of Technology Sydney 2018 / 2 p. : ill [http://ismict2018.org/images/Docs-2017/ISMICT-2018-](http://ismict2018.org/images/Docs-2017/ISMICT-2018-Program---Final.pdf)

[Program---Final.pdf](http://dx.doi.org/10.1109/ISMICT.2018.8573721) <http://dx.doi.org/10.1109/ISMICT.2018.8573721>

**Bridging the gap between technology and usability for portable brain trauma scanning device**

**Priidel, Eiko**; Mikola, Annika; **Gordon, Rauno**; **Martsepp, Maret**; **Kenkre, Pranay**; **Taros, Taavi**; **Pärenson, Taavet** The 10th

**Bridging the gap between technology and usability for portable brain trauma scanning device**

**Priidel, Eiko**; Mikola, Annika; **Gordon, Rauno**; **Martsepp, Maret**; **Kenkre, Pranay**; **Taros, Taavi**; **Pärenson, Taavet** International journal of bioelectromagnetism 2015 / p. 87-89 : ill

**Broadband discrete-level excitations for improved extraction of information in bioimpedance measurements**

**Min, Mart**; **Paavle, Toivo** Physiological measurement 2014 / p. 997-1010 : ill <https://doi.org/10.1088/0967-3334/35/6/997> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Budded baculoviruses as a receptor display system to quantify ligand binding with TIRF microscopy**

Laasfeld, Tõnis; **Ehrminger, Robin**; Tahk, Maris-Johanna; Veiksina, Santa; Kõlvart, Karl Rene; **Min, Mart**; Kopanchuk, Sergei; Rinken, Ago Nanoscale 2021 / p. 2436 - 2447 <https://doi.org/10.1039/d0nr06737g> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A cache-based approach toward improved scheduling in fog computing**

Khan, Osama Amir; Malik, Saif Ur Rehman; Baig, Faizan M.; Islam, Saif Ul; Pervaiz, Haris; **Malik, Hassan**; Ahmed, Syed Hassan Software - Practice and Experience 2021 / p. 2360 - 2372 <https://doi.org/10.1002/spe.2824> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Can 3D printing bring droplet microfluidics to every lab? - A systematic review**

**Gyimah, Nafisat**; **Scheler, Ott**; **Rang, Toomas**; **Pardy, Tamas** Micromachines 2021 / art. 339 <https://doi.org/10.3390/mi12030339> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**CAP waveform estimation from the measured electrical bioimpedance values : patient's heart rate variability analysis**

**Krivošei, Andrei**; **Uuetoa, Hasso**; **Min, Mart**; **Annus, Paul**; Uuetoa, Tiina; Lamp, Jürgen Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 2788-2791 : ill <https://doi.org/10.1109/EMBC.2015.7318970> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [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

**CapsNet on embedded devices in a data scarce scenario**

**Ezechukwu, Dismas Ndubuis**; **Le Moullec, Yannick** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l. <https://doi.org/10.1109/BEC56180.2022.9935600>

**Cardiac pacing and monitoring : new methods, modern devices**

2019 [intechopen.73811](#)

**Cardiac rhythm management - pacing, ablation, devices**

2022 <https://doi.org/10.5772/intechopen.95171>

**Case study of non-linear PV inverter devices attached to the LV distribution network**

**Vinnal, Toomas**; **Puusepp, Hardi**; **Shabbir, Noman**; **Kütt, Lauri**; **Iqbal, Muhammad Naveed** Agronomy research 2020 / p. 2639-2652 : ill <https://doi.org/10.15159/AR.20.233> <https://dspace.emu.ee/xmlui/handle/10492/5955> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

**Challenges and Applications of Impedance-Based Biosensors in Water Analysis**

**Kivirand, Kairi**; **Min, Mart**; Rinken, Toonika Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.89334>

**Change in the parameters of electron-irradiated 4H-SiC Schottky diodes as a function of the time during low-temperature isothermal annealing**

**Korolkov, Oleg**; Kozlovski, Vitali V.; Lebedev, Alexander A.; **Toompuu, Jana**; **Sleptsuk, Natalja**; **Rang, Toomas** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 734-737 <https://doi.org/10.4028/www.scientific.net/MSF.963.734> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Channel characterization at 2.4 GHz for aerial base station**

**Sharma, Navuday**; Magarini, Maurizio; Reggiani, Luca; **Alam, Muhammad Mahtab** Procedia computer science 2019 / p. 1092-1099 <https://doi.org/10.1016/j.procs.2019.04.155> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Channel prediction based enhanced throughput and channel aware MAC in SmartBAN standard**

**Khan, Rida; Alam, Muhammad Mahtab; Kuusik, Alar** 2019 16th International Symposium on Wireless Communication Systems (ISWCS) 2019 / p. 463-468 : ill <https://doi.org/10.1109/ISWCS.2019.8877244>

### **Characterization of deep level traps in semiconductor structures using numerical experiments**

**Koel, Ants; Rang, Toomas; Rang, Galina** Materials characterization VII 2015 / p. 253-261 : ill

### **Characterization of Interfaces Between the Metal Film and Silicon Carbide Semiconductor = Metallkontakti ja ränikarbiidi vahelise liidespinna karakteriseerimine**

**Ziko, Mehadi Hasan** 2021 <https://digikogu.taltech.ee/et/Item/34be534c-63e8-4013-b271-eaf1a7cb22e7>

[https://www.ester.ee/record=b5471196\\*est](https://www.ester.ee/record=b5471196*est) <https://doi.org/10.23658/taltech.52/2021>

### **Characterization of silicon carbide (SiC) and graphene-based novel semiconductor devices = Ränikarbiidil (SiC) ja grafeenil põhinevate uudsete pooljuhtstruktuuride karakteriseerimine**

**Rashid, Muhammad Haroon** 2021 [https://www.ester.ee/record=b5397240\\*est](https://www.ester.ee/record=b5397240*est) <https://digikogu.taltech.ee/et/Item/a64fd50e-125c-49ad-b0a6-6ad2e01b8bfa> <https://doi.org/10.23658/taltech.6/2021>

### **Characterization of the temperature dependent behavior of snappy phenomenon by the switching-off of GaAs power diode structures**

**Koel, Ants; Rang, Toomas; Rang, Galina** Heat transfer XIII : simulation and experiments in heat and mass transfer 2014 / p. 439-449 : ill <https://doi.org/10.2495/HT140381> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Characterizing the biofunctionalization of gold surface with total internal reflection fluorescence (TIRF) microscopy**

**Ehrminger, Robin Benjamin; Kopantšuk, Sergei; Kivirand, Kairi; Min, Mart** Proceedings of the Estonian Academy of Sciences 2020 / p. 27-34 : ill <https://doi.org/10.3176/proc.2020.1.02> [http://www.kirj.ee/33001/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/33001/?tpl=1061&c_tpl=1064) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chemical heating for non-instrumented nucleic acid amplification on lab-on-a-chip devices**

**Pardy, Tamas** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 95-98 : ill

### **Chirp signals in impedance spectroscopy**

**Min, Mart; Märten, Olev; Land, Raul** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 72

### **Chirp-based piezo-impedance measurement**

**Saar, Tõnis; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Herranen, Henrik** Proceedings : WISP'2013, 8th IEEE International Symposium on Intelligent Signal Processing 2013 / [4] p. : ill <https://ieeexplore.ieee.org/document/6657487>

### **Classification and denoising of objects in TEM and CT images using deep neural networks = Objektide klassifitseerimine ja müraustamine TEM ja KT kujutistelt sügavate närvivõrkude abil**

**Gupta, Anindya** 2018 <https://digi.lib.ttu.ee/i/?9954> [https://www.ester.ee/record=b5056535\\*est](https://www.ester.ee/record=b5056535*est)

### **Classification of cross-sections for vascular skeleton extraction using convolutional neural networks**

**Lidayová, Kristína; Gupta, Anindya; Frimmel, Hans; Sintorn, Ida-Maria; Bengtsson, Ewert; Smedby, Örjan** Medical Image : Understanding and Analysis, 21st Annual Conference, MIUA 2017 Edinburgh, UK, July 11-13, 2017 : Proceedings 2017 / p. 182-194 [https://doi.org/10.1007/978-3-319-60964-5\\_16](https://doi.org/10.1007/978-3-319-60964-5_16) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Closed-loop droplet size control in microfluidics = Suletud ahelaga tilkade suuruse juhtimine mikrofluidikas**

**Gyimah, Nafisat** 2024 <https://digikogu.taltech.ee/et/Item/c4a0c9de-83e5-41ff-bdcf-24ba61182d1f> [https://www.ester.ee/record=b5698980\\*est](https://www.ester.ee/record=b5698980*est) <https://doi.org/10.23658/taltech.47/2024>

### **Co-design of a wireless networked control system for reliability and resource-efficiency**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 7 p <https://doi.org/10.1109/BEC61458.2024.10737965> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Co-design of wireless networked control systems : a reliable and resource-efficient approach**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** techrxiv.org 2024 / 9 p. : ill <https://www.techrxiv.org/users/693853/articles/683291-co-design-of-wireless-networked-control-systems-a-reliable-and-resource-efficient-approach>

### **Co-design of wireless networked control systems : model-based architecture and joint optimization = Juhtmevabade võrgustatud juhtimissüsteemide koosdisain : mudelipõhine arhitektuur ja ühisoptimeerimine**

**Ashraf, Kanwal** 2024 [https://www.ester.ee/record=b5685529\\*est](https://www.ester.ee/record=b5685529*est) <https://doi.org/10.23658/taltech.30/2024> <https://digikogu.taltech.ee/et/Item/b8d1b3cd-0149-442a-8044-ba7d1106c081>

### **CogniFlow: integrated modular system for automated droplet microfluidic bioanalysis**

**Jõemaa, Rauno; Afrin, Fariha; Gyimah, Nafisat; Ashraf, Kanwal; Pärnamets, Kaiser; Giese, Lucas; Rocancourt, Mathieu; Pardy, Tamas** EUROSENSORS XXXVI : abstract book 2024 / PT6.188, p. 453-454 <https://doi.org/10.5162/EUROSENSORSXXXVI/PT6.188>

### **Cogniflow-drop : integrated modular system for automated generation of droplets in microfluidic applications**

**Jõemaa, Rauno; Gyimah, Nafisat; Ashraf, Kanwal; Pärnamets, Kaiser; Zaft, Alexander; Scheler, Ott; Rang, Toomas; Pardy, Tamas** IEEE Access 2023 / p. 104905-104929 <https://doi.org/10.1109/ACCESS.2023.3316726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Coin recognition using line scan camera**

**Gavrijaševa, Alina; Märten, Olev; Land, Raul; Reidla, Marko** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 161-164 : ill

### **Coin validation by electromagnetic, acoustic and visual features = Mündi valideerimine elektromagnetiliste, akustiliste ja visuaalsete tunnuste järgi**

**Gavrijaševa, Alina** 2015 <https://digi.lib.ttu.ee/il/?2408> [https://www.ester.ee/record=b4480613\\*est](https://www.ester.ee/record=b4480613*est)

### **Communication challenges in on-body and body-to-body wearable wireless networks - a connectivity perspective**

**Ben Arbia, Dhafer; Alam, Muhammad Mahtab; Le Moulec, Yannick; Hamida, Elyes Ben** Technologies 2017 / art. 43, p.1-18 : ill <https://doi.org/10.3390/technologies5030043> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Compact empirical model for droplet generation in a Lab-on-Chip cytometry system**

**Pärnamets, Kaiser; Udal, Andres; Koel, Ants; Pardy, Tamas; Gyimah, Nafisat; Rang, Toomas** IEEE Access 2022 / p. 127708-127717 <https://doi.org/10.1109/ACCESS.2022.3226623> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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=b1578112\\*est](http://www.ester.ee/record=b1578112*est)

### **Comparative characteristics of diffusion-welded high-voltage stacks and connected in series Schottky diodes**

**Sleptšuk, Natalja; Korolkov, Oleg; Land, Raul; Toompuu, Jana; Annus, Paul; Rang, Toomas** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 39-42 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

### **Comparative investigation of the graphene-on-silicon carbide and CVD graphene as a basis for biosensor application**

**Sleptšuk, Natalja; Lebedev, Alexander A.; Elisayev, Ilya; Korolkov, Oleg; Toompuu, Jana; Land, Raul; Mikli, Valdek; Zubov, Alexander; Rang, Toomas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 185-190 : ill [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://www.scientific.net/KEM.799.185> <https://doi.org/10.4028/www.scientific.net/KEM.799.185> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Comparative measurement of cardiac cycle by means of different sensors**

**Priidel, Eiko; Land, Raul; Sinivee, Veljo; Annus, Paul; Min, Mart** 2017 Electronics : proceedings of the 21st International Conference : June 19th-21st, 2017, Palanga, Lithuania 2017 / [5] p. : ill <https://doi.org/10.1109/ELECTRONICS.2017.7995221>

### **Comparative results of low temperature annealing of lightly doped n-layers of silicon carbide irradiated by protons and electrons**

**Kozlovski, Vitali V.; Korolkov, Oleg; Lebedev, Alexander A.; Toompuu, Jana; Sleptšuk, Natalja** Silicon Carbide and Related Materials 2019 : 18th International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), Kyoto, Japan, September 29 - October 4, 2019 2020 / p. 231-236 <https://doi.org/10.4028/www.scientific.net/MSF.1004.231> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Comparison of eddy current theory and Finite Element Method for metal evaluation**

**Gordon, Rauno; Märten, Olev; Kolyshkin, Andrei** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 41-45 : ill

### **Comparison of excitation signals and methods for a wideband bioimpedance measurement**

**Ojarand, Jaan; Rist, Marek; Min, Mart** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1291-1296 : ill

**Comparison of the carbon nanofiber/fiber- and silicone-based electrodes for bioimpedance measurements**

**Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul;** Must, Indrek IEEE transactions on instrumentation and measurement 2020 / p. 1455-1463 <https://doi.org/10.1109/TIM.2019.2962297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Complex division by Baudhayan triplet algorithm using novel state of the art USP-awadhoot divider**

**Patankar, Udayan Sunil; Koel, Ants;** Patankar, Sunil M.; Flores, Miguel E. IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC) 2021 / p. 1918-1922 <https://doi.org/10.1109/IMCEC51613.2021.9482010>

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

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

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

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

**Controllable limiter of signal amplitudes for bioimpedance measurements**

**Ojarand, Jaan; Min, Mart** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 920-923 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_230](https://doi.org/10.1007/978-981-10-5122-7_230) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Convolutional neural networks for false positive reduction of automatically detected cilia in low magnification TEM images**

**Gupta, Anindya;** Suveer, Amit; Lindblad, Joakim; Dragomir, Anca; Sintorn, Ida-Maria; Sladoje, Nataša Image Analysis, 20th Scandinavian Conference, SCIA 2017, Tromsø, Norway, June 12–14, 2017 : proceedings, Part I 2017 / p. 407-418 : ill [https://doi.org/10.1007/978-3-319-59126-1\\_34](https://doi.org/10.1007/978-3-319-59126-1_34) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Cooperative interference avoidance scheduler for radio resource management in NB-IoT systems**

**Mwakwata, Collins Burton; Alam, Muhammad Mahtab; Le Moullec, Yannick; Malik, Hassan; Päränd, Sven** EuCNC 2020: 2020 European Conference on Networks and Communications (EuCNC), Dubrovnik, Croatia, Croatia, 15-18 June 2020 : proceedings 2020 / p. 154-159 <https://doi.org/10.1109/EuCNC48522.2020.9200967>

**Cooperative scheduler to enhance massive connectivity in 5G and beyond by minimizing interference in OMA and NOMA**

**Mwakwata, Collins Burton; Elgarhy, Osama Mohamed Mostafa; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven;** Trichias, Konstantinos; Ramantas, Kostas IEEE Systems Journal 2022 / p. 5044-5055 <https://doi.org/10.1109/JSYST.2021.3114338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Correlation between electrical bioimpedance and pressure waveform in radial artery and in mechanical pulsating pipe system**

**Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Märten, Olev** 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020 <https://doi.org/10.1109/I2MTC43012.2020.9128972>

**Cost-efficient network planning for the cross-border Baltic corridor—a study**

**Elgarhy, Osama Mohamed Mostafa; Alam, Mohammad Saad; Tammets, Anet; Roosipuu, Priit;** Ancans, Guntis; Saidans, Guntars; Tutovs, Jurijs; Saliņš, Klavs; Verdinš, A.; Aleksandrovs, M.; Perševics, A.; Zariņš, D.; Uusmaa, Mart; Uhtlik, Ove; Soom, Priit Sensors 2023 / art. 8111 <https://doi.org/10.3390/s23198111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Coupling and electrodes**

**Metshein, Margus** Bioimpedance and Spectroscopy 2021 / p. 3-50 : ill <https://doi.org/10.1016/B978-0-12-818614-5.00010-2> <https://ebookcentral.proquest.com/lib/tuee/reader.action?docID=6644985&ppg=48>

**Coverage analysis of NB-IoT and sigfox : two Estonian University campuses as a case study**

Poddar, Nishant; Mass, Jakob; **Khan, Sikandar Muhammad Zulqarnain** 2020 16th International Wireless Communications & Mobile Computing Conference (IWCMC) : Limassol, Cyprus, June 15 - 19, 2020 2020 / p. 1491-1497 : ill <https://doi.org/10.1109/IWCMC48107.2020.9148570>

**Crest factor optimization of the multisine waveform for bioimpedance spectroscopy**

**Ojarand, Jaan; Min, Mart; Annus, Paul** Physiological measurement 2014 / p. 1019-1033 : ill <https://doi.org/10.1088/0967->

**CROW2 : Internet of humans-based platform for disaster relief and emergency communication**

Ben Arbia, Dhafer; **Alam, Muhammad Mahtab**; Attia, Rabah; Ben Hamida, Elyes; Kadri, Abdullah 14th IEEE Annual Consumer Communications & Networking Conference, CCNC 2017 : Las Vegas, NV, USA, January 8-11, 2017 2017 / p. 578-579 : ill <https://doi.org/10.1109/CCNC.2017.7983174>

**Current sensing methods for portable power circuits : working out an accurate flexible integrated solution**

Mihhailov, Juri 2013 [https://www.ester.ee/record=b4533635\\*est](https://www.ester.ee/record=b4533635*est)

**DAAG-SNP: energy efficient distance and angulation based agglomerative clustering for sink node placement**

Hanif, Maria; Ahmad, Rizwan; Ahmed, Waqas; Drieberg, Micheal; **Alam, Muhammad Mahtab** IEEE Open Journal of the Communications Society 2024 / p. 5013-5026 <https://doi.org/10.1109/OJCOMS.2024.3421901> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**DASIP 2016 : [special issue]**

2017 <https://www.sciencedirect.com/journal/journal-of-systems-architecture/special-issue/10N2RZ46VP0>

**Decentralized distributed data structure for bioanalytical laboratory setups**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas** 8th ACM Celebration of Women in Computing : womENCourage 2021, 22-24 September, 2021, Czech Republic 2021 / 2 p. : ill [https://womencourage.acm.org/2021/wp-content/uploads/2021/07/59\\_extendedabstract.pdf](https://womencourage.acm.org/2021/wp-content/uploads/2021/07/59_extendedabstract.pdf)

**Decentralized distributed data structure for bioanalytical laboratory setups : [poster]**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas** 2021 / 1 p. : ill [https://womencourage.acm.org/2021/wp-content/uploads/2021/07/59\\_poster.pdf](https://womencourage.acm.org/2021/wp-content/uploads/2021/07/59_poster.pdf)

**Decomposing of cardiac and respiratory signals from electrical bio-impedance data using filtering method**

**Mughal, Yar M.** The International Conference on Health Informatics : ICHI 2013, Vilamoura, Portugal on 7-9 November, 2013 2014 / p. 252-255 : ill [https://doi.org/10.1007/978-3-319-03005-0\\_64](https://doi.org/10.1007/978-3-319-03005-0_64) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Decomposition of the EBI signal into components using two channel cross-compensating singular spectrum analysis**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Butsenko, Maksim** 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2018) : proceedings : Rome, Italy, June 11-13, 2018 2018 / 5 p. : ill

**A deep learning approach for LoS/NLoS identification via PRACH in UAV-assisted public safety networks**

Scazzoli, Davide; Magarini, Maurizio; Reggiani, Luca; **Le Moullec, Yannick; Alam, Muhammad Mahtab** 2020 IEEE 31st Annual International Symposium on Personal, Indoor and Mobile Radio Communications, August 31 - September 3, 2020 in London, United Kingdom : proceedings 2020 / 6 p <https://doi.org/10.1109/PIMRC48278.2020.9217127>

**Deep reinforcement learning-based digital twin for droplet microfluidics control**

**Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas** Physics of Fluids 2023 / art. 082020 <https://doi.org/10.1063/5.0159981> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Deep-learning based blood cells classification and initial edge device implementation**

Islam, Md. Raisul; **Le Moullec, Yannick; Afrin, Fariha**; Ahmed, Faisal 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935610>

**Degradation of 600-V 4H-SiC Schottky diodes under irradiation with 0.9 MeV electrons**

Lebedev, Alexander A.; Davidovskaja, Klavdia; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptšuk, Natalja; Toompuu, Jana** Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 447-450 : ill <https://doi.org/10.4028/www.scientific.net/MSF.897.447> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Degradation of 600-V 4H-SiC Schottky diodes under irradiation with 0,9 MeV electrons**

Lebedev, Alexander A.; Davydovskaja, K. S.; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptšuk, Natalja; Toompuu, Jana** 11th European Conference on Silicon Carbide and Related Materials : September 25-29, 2016, Porto Carras Grand Resort, Halkidiki, Greece : [poster session] 2016 / p. 49

**Dependence of the carrier removal rate in 4H-SiC PN structures on irradiation temperature**

Lebedev, Alexander A.; Davydovskaya, Klavdia S.; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptšuk, Natalja; Toompuu, Jana** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 730-733 <https://doi.org/10.4028/www.scientific.net/MSF.963.730> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Derivation of Bioimpedance Model Data Utilizing a Compact Analyzer and Two Capacitive Electrodes : A Forearm Example**

**Ojarand, Jaan; Priidel, Eiko; Min, Mart** IEEE Transactions on Biomedical Circuits and Systems 2022 / p. 891-901

<https://doi.org/10.1109/TBCAS.2022.3206666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design and manufacturing of composite laminates with structural health monitoring capabilities**

**Herranen, Henrik; Majak, Jüri; Tšukrejev, Pavel; Karjust, Kristo; Märten, Olev** Procedia CIRP 2018 / p. 647-652 : ill

<https://doi.org/10.1016/j.procir.2018.03.128> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Design and optimization of AIN based RF MEMS switches**

**Ziko, Mehadi Hasan; Koel, Ants** IOP conference series : materials science and engineering 2018 / 012002 ; 9 p.: ill

<https://doi.org/10.1088/1757-899X/362/1/012002> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Design of a highly efficient analog-to-digital converter for Wi-Fi 7 devices = Pidevaja Sigma-Delta muunduri disain Wi-Fi 7 seadmete**

**Kampus, Vahur** 2025 [https://www.ester.ee/record=b5752898\\*est](https://www.ester.ee/record=b5752898*est) <https://digikogu.taltech.ee/et/Item/156d4c1c-e0f9-45aa-93a9-2cc8f1431aa0>  
<https://doi.org/10.23658/taltech.46/2025>

**Design of Cyber Bio-analytical Physical Systems : formal methods, architectures, and multi-system interaction strategies**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** Microprocessors and microsystems 2023 / art. 104780, 14

p. : ill <https://doi.org/10.1016/j.micpro.2023.104780> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design of two stage high efficiency power amplifier in 0.13um technology for 2.4 GHz ISM band applications**

**Patankar, Udayan Sunil; Koel, Ants; Rang, Toomas** Journal of Advanced Research in Dynamical and Control Systems 2018 / p. 822–829 <http://www.jardcs.org/backissues/abstract.php?archiveid=3585>

**Detection of changes in tissue state with the aid of electromagnetic interaction = Koe seisundi muutuste detekteerimine elektromagnetilise vastastikmõju abil**

**Priidel, Eiko** 2022 <https://doi.org/10.23658/taltech.51/2022> <https://digikogu.taltech.ee/et/Item/c0a10f6b-6b53-45d9-a031-7e5c409946d2>  
[https://www.ester.ee/record=b5511742\\*est](https://www.ester.ee/record=b5511742*est)

**Detection of cracks in a sawblade by eddy current measurements**

**Märten, Olev; Land, Raul; Metshein, Margus; Abdullayev, Anar; Vennikas, Henri; Le Moullec, Yannick** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737981> [Conference proceedings at Scopus](#)

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

**Detection of pulmonary micronodules in computed tomography images and false positive reduction using 3D convolutional neural networks**

**Gupta, Anindya; Saar, Tõnis; Märten, Olev; Le Moullec, Yannick; Sintorn, Ida-Maria** International Journal of Imaging Systems and Technology 2019 / p. 327-339 : ill <https://doi.org/10.1002/ima.22373> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Determination of penicillins in milk by a dual-optrode biosensor**

**Kagan, Margarita; Printsmann, Gunnar; Kivirand, Kairi; Rinken, Toonika** Analytical letters 2017 / p. 819-828 : ill  
<https://doi.org/10.1080/00032719.2016.1202957>

**Development and analysis of carbon-based dry-contact electrodes for bioimpedance measurements = Süsinikmaterjalil põhinevate kuivkontakt-elektroodide arendus ja analüüs bioimpedantsi mõõtmiseks**

**Kõiv, Hip** 2023 <https://doi.org/10.23658/taltech.1/2023> <https://digikogu.taltech.ee/et/Item/f2775738-652e-4b4e-ba34-7a61fab78867>  
[https://www.ester.ee/record=b5528441\\*est](https://www.ester.ee/record=b5528441*est)

**Development and optimisation of modelling methods and algorithms for terahertz range radiation sources based on quantum well heterostructures = Kvantaukudega heterostruktuuridel põhinevate terahertsikiirguri modelleerimismeetodite ja -algoritmide arendus ja optimeerimine**

**Reeder, Reeno** 2014 [https://www.ester.ee/record=b3084247\\*est](https://www.ester.ee/record=b3084247*est)

**Development and testing of a compact voice command recognition algorithm for limited complexity microcontroller devices**

**Udal, Andres; Riid, Andri; Jaanus, Martin; Pärnamets, Kaiser; Lokuta, Madis** 2018 22nd International Conference Electronics : Palanga, Lithuania, 18-20 June 2018 2018 / p. 1-4 : ill <http://doi.org/10.1109/ELECTRONICS.2018.8443645>

**Development of a bio-impedance signal simulator on the basis of the regression based model of the cardiac and respiratory impedance signals**

**Muhammad, Yar; Le Moullec, Yannick; Annus, Paul; Min, Mart** 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 92-95 : ill [https://doi.org/10.1007/978-3-319-12967-9\\_25](https://doi.org/10.1007/978-3-319-12967-9_25) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Development of a low-cost, wireless smart thermostat for isothermal DNA amplification in lab-on-a-chip devices**

**Pardy, Tamas; Sink, Henri; Koel, Ants; Rang, Toomas** Micromachines 2019 / art. 437, 13 p. : ill <https://doi.org/10.3390/mi10070437>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of a transferable microfluidic droplet generator = Ülekantava mikrovedelik-tilkade generaatori arendus**

**Jõemaa, Rauno** 2024 [https://www.ester.ee/record=b5698969\\*est](https://www.ester.ee/record=b5698969*est) <https://doi.org/10.23658/taltech.46/2024>  
<https://digikogu.taltech.ee/et/Item/afb53063-1f89-4971-8758-142772e697dd>

**Development of automated detection and wireless reporting for a handheld point-of-care test**

**Pardy, Tamas; Filograno, Leonardo; Baumann, Cindy; Rang, Toomas** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2021 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276773>

**Development of bioimpedance sensing device for wearable monitoring of the aortic blood pressure curve = Entwicklung eines Bioimpedanz-Messgerätes für die mobile Erfassung des aortalen Blutdruck**

**Kõiv, Hip; Rist, Marek; Min, Mart** Technisches Messen 2018 / p. 366–377 : ill <https://doi.org/10.1515/teme-2017-0113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of methods for real-time in-step anomaly detection in gait analysis = Reaalajaliste meetodite arendus sammusiseste kõrvalkallete tuvastamiseks kõnnialalüüsis**

**Rostovski, Jakob** 2025 [https://www.ester.ee/record=b5734578\\*est](https://www.ester.ee/record=b5734578*est) <https://digikogu.taltech.ee/et/Item/c25ff8f8-a46a-45ce-b231-23d2d52e7f54>  
<https://doi.org/10.23658/taltech.15/2025>

**Development of national standard for voltage unit based on solid-state references = Pinge mõõtühiku riigietaloni arendamise Zener-tüüpi etalonpingeallikate baasil**

**Pokatilov, Andrei; Kübarsepp, Toomas** 2008 [https://www.ester.ee/record=b2425069\\*est](https://www.ester.ee/record=b2425069*est)

**Development of numerical semiconductor device models and their application in device theory and design**

**Udal, Andres** 1998 [http://www.ester.ee/record=b1158907\\*est](http://www.ester.ee/record=b1158907*est)

**Development of numerical semiconductor device models and their application in device theory and design =**

**Pooljuhtseadiste numbriliste mudelite väljatöötamine ja rakendamine seadiste teoorias ja disainis : [a thesis ... of doctor of philosophy in engineering]**

**Udal, Andres** 1998 [http://www.ester.ee/record=b2688054\\*est](http://www.ester.ee/record=b2688054*est)

**Development of quality and knowledge management system for the first satellite mission in an educational institution based on ECSS standards**

**Vihmand, Mart; Dihuliya, Divya; Ehrminger, Robin** 66th International Astronautical Congress 2015 (IAC 2015) : Space - The Gateway for Mankind's Future, Jerusalem, Israel, 12-16 October 2015 2015 / p. 9717-9719  
<https://iafastro.directory/iac/paper/id/31145/summary/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Development of temperature control solutions for non-instrumented nucleic acid amplification tests (NINAAT)**

**Pardy, Tamas; Rang, Toomas; Tulp, Indrek** Micromachines 2017 / p. 1-11 : ill <https://doi.org/10.3390/mi8060180> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A device for measuring the electrical bioimpedance with variety of electrode placements for monitoring the breathing and heart rate**

**Metshein, Margus** 2015 26th Irish Signals and Systems Conference (ISSC) : Institute of Technology Carlow, Ireland, June 24-25, 2015 2015 / [4] p. : ill <http://dx.doi.org/10.1109/ISSC.2015.7163748>

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

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

**Difference sampling in bio-impedance measurement**

**Anus, Paul; Rist, Marek; Reidla, Marko; Min, Mart** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 67

**Digital self-interference cancellation: algorithmic performance analysis and software defined radio based realization**

**Rani, Ritu; Le Moullec, Yannick** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277345>

**Digital twin for controlled generation of water-in-oil microdroplets with required size**

**Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas** 2022 23rd International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE), 25-27 April 2022, St Julian, Malta : proceedings 2022 / p. 85-91 <https://doi.org/10.1109/EuroSimE54907.2022.9758876>

### **Direct discovery-based cooperative device-to-device communication for emergency scenarios in 6G**

**Masood, Ali; Alam, Muhammad Mahtab; Le Moullec, Yannick** 2022 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) : proceedings 2022 / p. 297-302 : ill  
<https://doi.org/10.1109/EuCNC/6GSummit54941.2022.9815706>

### **Direct eddy current method for volumetric flaws of cylindrical shape**

**Koliškina, Valentina; Kolyshkin, Andrei; Gordon, Rauno; Märten, Olev** ECCOMAS Congress 2016 : VII European Congress on Computational Methods in Applied Sciences and Engineering : proceedings. Vol. 1 2016 / p. 7659-7665 : ill  
<https://www.eccomas2016.org/proceedings/pdf/5264.pdf>

### **Discussion of the development aspects of the quantum cascadelaser simulation software**

**Reeder, Reeno; Udal, Andres; Velme, Enn** International Conference on THz and Mid Infrared Radiation and Applications to Cancer Detection Using Laser Imaging jointly with the Workgroup Meetings of Cost Actions MP1204 and BM1205 : October 10-11, 2013, Sheffield, United Kingdom 2013 / p. [36] <http://tera-mir.org/main/node/60>

### **Dispersion management for nonlinearity mitigation in two-span 28 GBaud QPSK phase-sensitive amplifier links**

**Astra, Egon; Olsson, Samuel L. I.; Eliasson, Henrik; Andrekson, Peter Avo** Optics express 2017 / p. 13163-13173 : ill  
<https://doi.org/10.1364/OE.25.013163> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Distributed adaptive largest eigenvalue detection with SNR weighted observations [Online resource]**

**Ainomäe, Ahti; Trump, Tõnu; Le Moullec, Yannick** 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.2018.8600974>

### **Distributed largest eigenvalue detection**

**Ainomäe, Ahti; Trump, Tõnu; Bengtsson, Mats** 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 3519-3523 : ill  
<https://doi.org/10.1109/ICASSP.2017.7952811> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Distributed largest eigenvalue-based spectrum sensing using diffusion LMS**

**Ainomäe, Ahti; Bengtsson, Mats; Trump, Tõnu** IEEE transactions on signal and information processing over networks 2018 / p. 362-377 : ill <https://doi.org/10.1109/TSIPN.2017.2705483> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Distributed signal processing in cognitive radio networks = Hajutatud signaalitöötlus kognitiivse raadio võrgus**

**Ainomäe, Ahti** 2018 <https://digi.lib.ttu.ee/i/?9956> [https://www.ester.ee/record=b5138040\\*est](https://www.ester.ee/record=b5138040*est)

### **Divider implementation based on USP-awadhoot division algorithm For area optimization**

**Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil M.; Flores, Miguel E.** IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC) 2021 / p. 1675-1682  
<https://doi.org/10.1109/IMCEC51613.2021.9482132>

### **Division algorithms - from past to present chance to improve area time and complexity for digital applications**

**Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants** LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073050>

### **Division Method And Circuit**

**Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil; Flores, Miguel E.** 2022 <https://www.wipo.int>

### **DORM : narrowband IoT development platform and indoor deployment coverage analysis**

**Khan, Sikandar Muhammad Zulqarnain; Malik, Hassan; Sarmiento, Jeffrey Leonel Redondo; Alam, Muhammad Mahtab; Le Moullec, Yannick** Procedia computer science 2019 / p. 1084-1091 : ill <https://doi.org/10.1016/j.procs.2019.04.154> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

### **Droon lendab terroriohvreile appi**

**Imeline Teadus** 2021 / lk. 20 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

### **A DSP-based EBI, ECG and PPG measurement platform**

**Abdullayev, Anar; Rist, Marek; Märten, Olev; Metshein, Margus; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Min, Mart; John, Deepu; Cardiff, Barry; Krivošei, Andrei; Annus, Paul** IEEE transactions on instrumentation and measurement 2023 / art. 2007808, 8 p <https://doi.org/10.1109/TIM.2023.3320771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at](#)

**A DSP-based impedance measurement device**

**Abdullayev, Anar; Märtens, Olev; Rist, Marek; Metshein, Margus; Min, Mart; Annus, Paul** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 p <https://doi.org/10.1109/BEC56180.2022.9935588>

**A DSP-based multichannel EBI measurement device**

**Abdullayev, Anar; Rist, Marek; Krivošei, Andrei; Metshein, Margus; Land, Raul; Märtens, Olev** 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) : proceedings 2024  
<https://doi.org/10.1109/I2MTC60896.2024.10560714> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Dual-source Linear Energy Prediction (LINE-P) model in the context of WSNs**

**Ahmed, Faisal; Tamberg, Gert; Le Moullec, Yannick; Annus, Paul** Sensors 2017 / art. 1666, p. 1-22 : ill  
<https://doi.org/10.3390/s17071666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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

**Dynamic electrical impedance measurement methods**

**Giannoukos, Georgios; Min, Mart** Engineering Technology, Engineering Education and Engineering Management : 2014 International Conference on Engineering Technology, Engineering Education and Engineering Management (ETEEEM 2014), Guangzhou, China, 15-16 November 2014 2015 / p. 379-383 : ill <http://dx.doi.org/10.1201/b18566-91>

**Dynamic radio frame configuration by exploiting uplink control channel for URLLC**

**Sharma, Navuday; Alam, Muhammad Mahtab; Le Moullec, Yannick; Malik, Hassan; Bennis, Mehdi; Päränd, Sven** 2019 IEEE Wireless Communications and Networking Conference Workshop (WCNCW) 2019 / 6 p. : ill  
<https://doi.org/10.1109/WCNCW.2019.8902898>

**Dynamic reference for evaluation of bioimpedance spectroscopy devices**

**Rist, Marek; Min, Mart** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 107-110 : ill  
[http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**Dynamic slot allocation using non overlapping backoff algorithm in IEEE 802.15.6 WBAN**

**Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan Khalid; Alam, Muhammad Mahtab; Kuusik, Alar; Le Moullec, Yannick** IEEE sensors journal 2020 / p. 10862-10875 : ill <https://doi.org/10.1109/JSEN.2020.2993795> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dynamic volume measurement of right ventricle using impedance spectroscopy and multi electrode intraventricular catheter**

**Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 26-27 : ill

**ECG classification with event-driven sampling**

**Saeed, Maryam; Märtens, Olev; Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry** IEEE Access 2024 / p. 25188-25199  
<https://doi.org/10.1109/ACCESS.2024.3364115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Eddy current corrosion measurement of steel**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Ferenets, Marju; Käsper, Andres** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 40-41 : ill

**Eddy current corrosion measurement of steel**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Ferenets, Marju; Käsper, Andres** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 125-134 : ill <https://doi.org/10.1515/9783110558920-012>

**Eddy current testing models for the analysis of corrosion effects in metal plates**

**Koliškina, Valentina; Kolyshkin, Andrei; Gordon, Rauno; Märtens, Olev** 19th European Conference on Mathematics for Industry : June, 13-17, 2016, Santiago de Compostela (Spain) : book of abstracts 2016 / p. 200 <http://dx.doi.org/10.15304/cc.2016.968>

**Eddy current validation of Euro-coins**

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

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

**Rahbari, Dadmehr; Alam, Muhammad Mahtab; Le Moullec, Yannick; Jenihhin, Maksim** Advances in Model and Data

Engineering in the Digitalization Era : MEDI2021 International Workshops: DETECT, SIAS, CSMML, BIOC, HEDA, Tallinn, Estonia, June 21–23, 2021 : proceedings 2021 / p. 78–87 [https://doi.org/10.1007/978-3-030-87657-9\\_6](https://doi.org/10.1007/978-3-030-87657-9_6) [Conference Proceedings at Scopus](#)  
[Article at Scopus](#)

**Eesti iduettevõtte töötas koos TalTechiga välja rahakotisõbraliku lahenduse, mis muudab energia säästmise lihtsamaks nii elu- kui ärihoonetes**

geenius.ee 2023 [Eesti iduettevõtte töötas koos TalTechiga välja rahakotisõbraliku lahenduse, mis muudab energia säästmise lihtsamaks nii elu- kui ärihoonetes](#)

**Eesti on maailma kuues riik, kus osutatakse lennuliiklusteenust juba kahele lennuväljale vaid digitorni abil**

digi.geenius.ee 2024 [Eesti on maailma kuues riik, kus osutatakse lennuliiklusteenust juba kahele lennuväljale vaid digitorni abil](#)

**Eesti tudengisatelliit Hämarik põles atmosfääris ära**

postimees.ee 2024 [Eesti tudengisatelliit Hämarik põles atmosfääris ära](#)

**Effect of imperfect CSI on interference alignment in multiple-high altitude platforms based communication**

Sudheesh, P.G.; Sharma, Navuday; Magarini, Maurizio; Muthuchidambaranathan, Palanivel Physical communication 2018 / p. 336-342 : ill <https://doi.org/10.1016/j.phycom.2017.11.002>

**Effective self adaptive multiple source localization technique by primal dual interior point method in binary sensor networks**

Khan, Muhidul Islam; Xia, Kewen IEEE communications letters 2017 / p. 1119-1122 : ill <https://doi.org/10.1109/LCOMM.2017.2657508>

**Effects of physical exercise on balance, range of motion (ROM) and angular velocity (AV) measurements**

Kask, Triin; Kuusik, Alar; Meerolla Kumar, S.; Maamägi, Heigo; Gross-Paju, Katrin Journal of the neurological sciences 2019 / p. 295–296 : ill <https://doi.org/10.1016/j.jns.2019.10.1380>

**Effects of the inclusion of armchair graphene nanoribbons on the electrical conduction properties of NN-heterojunction 4H-6H/SiC diodes**

Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas Advanced Materials and Processing Technologies : 2nd International Conference on Sensors, Materials and Manufacturing (ICSMM 2018, November 19-21, 2018, Taiwan); International Conference on Materials Sciences and Nanomaterials (ICMSN 2018, July 11-13, 2018, United Kingdom) and the 2nd International Conference on Materials and Intelligent Manufacturing (ICMIM 2018, August 24-26, 2018, Japan) 2019 / p. 29–35 : ill <https://doi.org/10.4028/www.scientific.net/MSF.962.29> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Efficient excitation signals for the fast impedance spectroscopy**

Ojarand, Jaan; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 144-149 : ill <https://doi.org/10.5755/j01.eee.20.5.7115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**EFIC-ME : a fast emulation based fault injection control and monitoring enhancement**

Abideen, Zain Ul; Rashid, Muhammad Haroon IEEE Access 2020 / p. 207705-207716 <https://doi.org/10.1109/ACCESS.2020.3038198> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electric impedance measurement of tissue phantom materials for development of medical diagnostic systems**

Kõiv, Hip; Gordon, Rauno; Pesti, Ksenija International Workshop on Impedance Spectroscopy 2014 : September 24-26 2014, Chemnitz, Germany 2014 / [2] p. : ill

**Electric impedance measurement of tissue phantom materials for development of medical diagnostic systems**

Kõiv, Hip; Pesti, Ksenija; Gordon, Rauno Progress reports on impedance spectroscopy : measurements, modeling, and application 2017 / p. 131-137 : ill <https://doi.org/10.1515/9783110449822-013>

**Electrical bioimpedance analysis for evaluating the effect of pelotherapy on the human skin : methodology and experiments**

Metshein, Margus; Tuulik, Varje-Riin; Tuulik, Viuu; Kumm, Monika; Min, Mart; Annus, Paul Sensors 2023 / art. 4251 <https://doi.org/10.3390/s23094251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrical bioimpedance based monitoring of cardiac and respiratory activity : positioning of capacitive electrodes for wearable human monitoring device**

Metshein, Margus; Parve, Toomas International journal of bioelectromagnetism 2015 / p. 64-74 : ill

**Electrical bio-impedance based non-invasive method for the central aortic blood pressure waveform estimation**

Krivošei, Andrei; Min, Mart; Uuetoa, Hasso; Lamp, Jürgen; Annus, Paul BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 181-184 : ill

**Electrochemical impedance spectroscopy**

El-Azazy, Marwa; **Min, Mart; Annus, Paul** Intechopen 2020 <https://www.intechopen.com/books/10054>  
<https://doi.org/10.5772/intechopen.92333>

### **Electrochemical impedance spectroscopy analysis of immunoglobulin G in patients with gastric cancer**

**Sergejev, Kirill; Land, Raul; Klaamas, Kersti; Kurtenkov, Oleg** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 189-192 : ill

### **Electrode optimization for bioimpedance based central aortic blood pressure estimation**

**Metshein, Margus; Kõiv, Hip; Annus, Paul; Min, Mart** World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 497-501 [https://doi.org/10.1007/978-981-10-9038-7\\_92](https://doi.org/10.1007/978-981-10-9038-7_92) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Electrode placement configuration variations with the aim of monitoring the rate of breathing and pulse by the means of electrical bioimpedance**

**Metshein, Margus** Doctoral School in Information and Communication Technology : proceedings of doctoral session of BEC 2014 : October 6-8 2014, Laulasmaa 2014 / p. 7-10 : ill

### **Electrode placement strategies for the measurement of radial artery bioimpedance : simulations and experiments**

**Pesti, Ksenija; Metshein, Margus; Annus, Paul; Kõiv, Hip; Min, Mart** IEEE transactions on instrumentation and measurement 2021 / 10 p. : ill <https://doi.org/10.1109/TIM.2020.3011784> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Elektrilise bioimpedantsi mõõtmistest ravimuda mõju hindamiseks inimese nahale**

**Metshein, Margus** Tervisedenduse ja Rehabilitatsiooni Kompetentsikeskuse ravimuda valdkonna toimetised. 2 2019 / lk. 82-96 : ill [https://terekk.ee/wp-content/uploads/Toimetised-II-parand\\_t%C3%A4isresolutsiooniline.pdf](https://terekk.ee/wp-content/uploads/Toimetised-II-parand_t%C3%A4isresolutsiooniline.pdf)

### **Elektrilisel bioimpedantsil põhinev sensor jälgib kopsude ja südame tööd**

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

### **Elektroonika**

**Velmre, Enn** TEA entsüklopeedia. 6. köide, eerika - faiaagid 2011 / lk. 199

### **Elektroonika üldkursuste laboratoorsete tööde juhendid**

1986 [https://www.ester.ee/record=b1240926\\*est](https://www.ester.ee/record=b1240926*est)

### **Elektroonsed mõõtmised inseneerias : [kõrgkooliõpik]**

**Märtens, Olev** 2022 <https://digikogu.taltech.ee/et/Item/205a1fc3-4743-4c50-9f0e-c13ce9b0649e>

### **Elektroonsed mõõtmised inseneerias : [kõrgkooliõpik]**

**Märtens, Olev** 2023 [https://www.ester.ee/record=b5557611\\*est](https://www.ester.ee/record=b5557611*est)

### **Elements of vedic mathematics**

**Patankar, Udayan Sunil; Patankar, Sunil M.** 2018 [http://www.ester.ee/record=b4764489\\*est](http://www.ester.ee/record=b4764489*est) <https://digikogu.taltech.ee/et/Item/2e3b67b5-330b-4f90-9c0e-65aa1b6aad6a>

### **Embedded blur-free single-image acquisition pipeline for droplet microfluidic imaging flow cytometry (IFC)**

**Afrin, Fariha; Pärnamets, Kaiser; Le Moullec, Yannick; Udal, Andres; Koel, Ants; Pardy, Tamas; Rang, Toomas** IEEE Access 2024 / p. 92431-92441 <https://doi.org/10.1109/ACCESS.2024.3421637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Embedded ICG-based stroke volume measurement system : comparison of discrete-time and continuous-time architectures**

Gautier, Antoine; Larras, Benoit; **Märtens, Olev**; John, Deepu; Frappe, Antoine IEEE International SOC Conference 2022 / p. 46-51 <https://doi.org/10.1109/SOCC52499.2021.9739386>

### **Empirical evaluation of NB-IoT and CAT-M coverage for underground water system**

**Roosipuu, Priit; Annus, Ivar; Kuusik, Alar; Kändler, Nils; Alam, Muhammad Mahtab; Mürsepp, Ivo** IEEE Access 2024 / p. 187290-187301 <https://doi.org/10.1109/ACCESS.2024.3478733> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An empirical modeling for the baseline energy consumption of an NB-IoT radio transceiver**

**Khan, Sikandar Muhammad Zulqarnain; Alam, Muhammad Mahtab; Le Moullec, Yannick; Kuusik, Alar; Pärand, Sven; Verikoukis, Christos** IEEE Internet of Things Journal 2021 / p. 14756-14772 : ill <https://doi.org/10.1109/JIOT.2021.3072769> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **End-to-end link availability assessments in an optical spectrum as a service use-case**

**Kaeval, Kaida** 2024 International Conference on Optical Network Design and Modeling (ONDM) : proceedings 2024 / 6 p  
<https://doi.org/10.23919/ONDM61578.2024.10582649>

### **Energy consumption evaluation of NOMA-based sustainable scheduling in 6G O-RAN**

**Latif, Aamir; Alam, Muhammad Mahtab; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick** 2024 International Wireless Communications and Mobile Computing (IWCMC) 2024 / p. 484-489 <https://doi.org/10.1109/IWCMC61514.2024.10592553>

### **Energy efficiency and connectivity maximization for massive machine type communication in multi-cell NOMA**

**Latif, Aamir; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick; Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) : October 2-4, 2024, Estonia 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737950> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Energy efficiency and latency optimization for IoT URLLC and mMTC use cases**

**Elgarhy, Osama Mohamed Mostafa; Reggiani, Luca; Alam, Muhammad Mahtab; Zoha, Ahmed; Ahmad, Rizwan; Kuusik, Alar** IEEE Access / p. 23132-23148 <https://doi.org/10.1109/ACCESS.2024.3364349> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article WOS](#)

### **Energy efficiency evaluation of linear transmitters for 5G NR wireless waveforms**

**Biyabani, Sara R.; Khan, Rida; Alam, Muhammad Mahtab; Biyabani, A. Ahmed; McCune, Earl** IEEE transactions on green communications and networking 2019 / p. 446 - 454 : ill <https://doi.org/10.1109/TGCN.2019.2902179> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Energy efficiency for bisection based power allocation with proportional fairness in relay-assisted LTE-A downlink system [Online resource]**

**Hassan, Hammad; Ahmed, Iffan; Alam, Muhammad Mahtab** 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.2018.8600970>

### **Energy efficient pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 19-20 : ill

### **Energy harvesting technologies - potential application to wearable health-monitoring**

**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

### **Energy-aware task scheduling by a true online reinforcement learning in wireless sensor networks**

**Khan, Muhidul Islam; Xia, Kewen; Ali, Ahmad; Aslam, Nelofar** International journal of sensor networks 2017 / p. 244-258  
<http://dx.doi.org/10.1504/IJSNET.2016.10001403>

### **Energy-efficient distributed leader selection algorithm for energy-constrained wireless sensor networks**

**Ulp, Sander; Le Moullec, Yannick; Alam, Muhammad Mahtab** IEEE Access 2019 / p. 4410-4421 : ill  
<https://doi.org/10.1109/ACCESS.2018.2888551> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Energy-efficient pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 153-160 : ill <https://doi.org/10.1515/9783110558920-015>

### **Enhanced decision mechanism for RAN subslicing in management closed control loop**

**Kulmar, Marika; Mürsepp, Ivo; Alam, Muhammad Mahtab** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 175-181 : ill <https://doi.org/10.1109/FMEC59375.2023.10306223>

### **Enhanced IoT-based end-to-end emergency and disaster relief system**

**Ben Arbia, Dhafer; Alam, Muhammad Mahtab; Kadri, Abdullah; Ben Hamida, Elyes; Attia, Rabah** Journal of sensor and actuator networks 2017 / art. 19, p. 1-18 : ill <https://doi.org/10.3390/jsan6030019> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Enhanced optimization of the wideband excitation signal for a bioimpedance measurement**

**Ojarand, Jaan; Rist, Marek; Min, Mart** 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2015) : May 11-14, 2015, Pisa, Italy : proceedings 2015 / p. 1801-1806 : ill <https://doi.org/10.1109/I2MTC.2015.7151554> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Enhancing fingerprinting-based 5G positioning accuracy with directionally transmitted synchronization signals**

**Mürsepp, Ivo; Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p.  
<https://doi.org/10.1109/BEC61458.2024.10737987> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [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>

**Erratum to: Long-haul optical transmission link using low-noise phase-sensitive amplifiers (Nature Communications, (2018), 9, 1, (2513), 10.1038/s41467-018-04956-5)**

**Olsson, Samuel L. I.; Eliasson, Henrik; Astra, Egon;** Karlsson, Magnus; Andrekson, Peter A. Nature Communications 2018 / Art. nr. 3064 <https://doi.org/10.1038/s41467-018-05591-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

**Error sources in analog ASICs and ways for their minimization**

**Mihhailov, Juri** International journal of engineering and applied sciences (EAAS) 2013 / p. 32-41 : ill

**Estimating sparse signals using integrated wideband dictionaries**

**Butsenko, Maksim;** Swärd, Johan; Jakobsson, Andreas IEEE Transactions on Signal Processing 2018 / p. 4170-4181 : ill <https://doi.org/10.1109/TSP.2018.2835426> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimating sparse signals using integrated wide-band dictionaries**

**Butsenko, Maksim;** Swärd, Johan; Jakobsson, Andreas 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 4426-4430 : ill <https://doi.org/10.1109/ICASSP.2017.7952993> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart;** Lamp, Jürgen; **Annus, Paul;** Uuetoa, Tiina The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart;** Lamp, Jürgen; **Annus, Paul;** Uuetoa, Tiina International journal of bioelectromagnetism 2015 / p. 31-35 : ill

**Estimating UWB positioning integrity based on ranging residuals**

**Tommingas, Mihkel; Ulp, Sander; Alam, Muhammad Mahtab; Müürsepp, Ivo; Laadung, Taavi** 2023 24th International Conference on Applied Electromagnetics and Communications (ICECOM) 2023 / 5 p <https://doi.org/10.1109/ICECOM58258.2023.10367954>

**Estonia's student satellite burns up after four years in orbit = Эстонский студенческий спутник Hämarik сгорел в атмосфере**

news.postimees.ee 2024 [Estonia's student satellite burns up after four years in orbit](#) [Эстонский студенческий спутник Hämarik сгорел в атмосфере](#)

**ETSI SmartBAN architecture: The global vision for smart body area networks**

Hamalainen, Matti; Mucchi, Lorenzo; Girod-Genet, Marc; Paso, Tuomas; Farserotu, John; Tanaka, Hirokazu; Anzai, Daisuke; Pierucci, Laura; **Khan, Rida; Alam, Muhammad Mahtab** IEEE Access 2020 / art. 9167215, p. 150611-150625 <https://doi.org/10.1109/ACCESS.2020.3016705> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Saeed, Maryam; Wang, Qingyuan; **Märtens, 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](#)

**Evaluation of low power wide area network technologies for smart urban drainage systems**

**Malik, Hassan; Kändler, Nils; Alam, Muhammad Mahtab; Annus, Ivar; Le Moullec, Yannick; Kuusik, Alar** 2018 IEEE : International Conference on Environmental Engineering, March 12-14, 2018 Milan Italy : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/EE1.2018.8385262>

**Evaluation of two-electrode system configurations for forearm arteries bioimpedance measurement**

**Metshein, Margus; Pesti, Ksenija;** Lapsa, Didzis; **Annus, Paul;** Janeliukstis, Rims; Elsts, A.; **Märtens, Olev** 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) : proceedings 2024 / 6 p <https://doi.org/10.1109/I2MTC60896.2024.10561178> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Evaluation of VoIP QoS performance in wireless mesh networks**

**Meeran, Mohammad Tariq; Annus, Paul; Alam, Muhammad Mahtab; Le Moullec, Yannick** Information 2017 / art. 88, p. 1-26 : ill <https://doi.org/10.3390/info8030088> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Event-driven ECG classification using an open-source, LC-ADC based non-uniformly sampled dataset**

Saeed, Maryam; Wang, Qingyuan; **Märtens, Olev**; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; John, Deepu 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401333> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Event-driven ECG classification using functional approximation and Chebyshev polynomials**

Saeed, Maryam; **Märtens, Olev**; Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry 2022 IEEE Biomedical Circuits and Systems Conference (BioCAS), 13-15 Oct. 2022 2022 / p. 595-599 <https://doi.org/10.1109/BioCAS54905.2022.9948612>

**Experimental Characterization of Connectivity for ProSe Direct Discovery in Emergency Scenarios for 6G**

**Masood, Ali; Alam, Muhammad Mahtab; Le Moullec, Yannick** 2023 IEEE Wireless Communications and Networking Conference (WCNC) 2023 / p. 1-6 <https://doi.org/10.1109/WCNC55385.2023.10118649>

**Experimental characterization of ProSe direct discovery for emergency scenarios**

**Masood, Ali; Le Moullec, Yannick; Alam, Muhammad Mahtab** 2021 IEEE 7th World Forum on Internet of Things (WF-IoT), 14 June 2021 - 31 July 2021, New Orleans, LA, USA : proceedings 2021 / p. 891-896 <https://doi.org/10.1109/WF-IoT51360.2021.9595305>

**Experimental modal analysis of maritime composite panel**

**Gavrijaševa, Alina; Märtens, Olev; Land, Raul; Saar, Tõnis; Herranen, Henrik; Majak, Jüri**; Reidla, Marko; **Kuusik, Alar** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 143-146 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**An experimental study of building blocks of lattice-based NIST post-quantum cryptographic algorithms**

**Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento** Electronics 2020 / art. 1953, 26 p. : ill <https://doi.org/10.3390/electronics9111953> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental validation and field trials of 5G cross-border connectivity**

**Elgarhy, Osama Mohamed Mostafa; Kulmar, Marika; Roosipuu, Priit; Rohtla, Margus; Le Moullec, Yannick; Kõrbe Kaare, Kati**; Sadam, Arvi; Scholliers, Johan; **Alam, Muhammad Mahtab** 2024 IEEE Future Networks World Forum (FNWF) 2024 / p. 57-62 <https://doi.org/10.1109/FNWF63303.2024.11028794>

**Extraction of the variable width laser line**

**Mölder, Ago; Märtens, Olev; Saar, Tõnis; Land, Raul** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 157-160 : ill

**Faasisünkroniseerimissüsteemi isehäälestumise tagamine : magistritöö**

**Ronk, Ants** 1992 [https://www.ester.ee/record=b2676473\\*est](https://www.ester.ee/record=b2676473*est)

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

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

**Fast precise eddy current measurement of metals**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Annus, Paul; Pokatilov, Andrei** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409781>

**Fat prediction in minced meat with low-cost BIA spectrometer**

**Objartel, Mart; Tamm, Martti; Kraft, Kadri; Annus, Paul; Land, Raul** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 38

**Feasibility of utilizing air gapped toroidal magnetic cores for detecting pulse wave in radial artery**

**Metshein, Margus; Pesti, Ksenija; Min, Mart; Annus, Paul; Märtens, Olev** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 5 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277197>

**Feasibility study of Si and SiC MOSFETs in high-gain DC/DC converter for renewable energy applications**

**Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Rang, Toomas** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5975-5978 : ill <https://doi.org/10.1109/IECON.2013.6700115> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**FedBranched : leveraging federated learning for anomaly-aware load forecasting in energy networks**

Manzoor, Habib Ullah; Khan, Ahsan Raza; Flynn, David; **Alam, Muhammad Mahtab**; Akram, Muhammad; Imran, Muhammad Ali; Zoha, Ahmed Sensors 2023 / art. 3570 <https://doi.org/10.3390/s23073570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**FESDA : fog-enabled secure data aggregation in smart grid IoT network**

Saleem, Ahsan; Khan, Abid; Malik, Saif Ur Rehman; Pervaiz, Haris; **Malik, Hassan**; Alam, Masoom; Jindal, Anish IEEE Internet of Things Journal 2020 / p. 6132-6142 <https://doi.org/10.1109/IJOT.2019.2957314> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Fiducial point estimation solution for impedance cardiography measurements**

**Märtens, Olev; Metshein, Margus; Abdullayev, Anar**; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Saeed, Maryam; John, Deepu; Cardiff, Barry; Krivošei, Andrei; **Annus, Paul; Rist, Marek** 2022 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) 2022 / Code 180602 <https://doi.org/10.1109/I2MTC48687.2022.9806596> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Filter**

**Velme, Enn** TEA entsüklopeedia. 7. köide, Faial - Haamer 2011 / lk. 61-62 [https://www.ester.ee/record=b2712813\\*est](https://www.ester.ee/record=b2712813*est)

#### **Finite element modelling for the optimization of microheating in disposable molecular diagnostics**

**Pardy, Tamas; Rang, Toomas**; Tulp, Indrek International journal of computational methods and experimental measurements 2017 / p. 13-22 : ill <https://doi.org/10.2495/CMEM-V5-N1-13-22> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Finite element modelling for the optimization of microheating in disposable molecular diagnostics [Electronic resource]**

**Pardy, Tamas; Rang, Toomas**; Tulp, Indrek 14th International Conference on Simulation and Experiments in Heat Transfer and its Applications : Heat Transfer 2016 : 7-9 September, 2016 Ancona, Italy : unedited papers 2016 / p. [144-155] : ill. [USB]

#### **Finite element modelling of the resistive heating of disposable molecular diagnostics devices**

**Pardy, Tamas; Rang, Toomas**; Tulp, Indrek Computational methods and experimental measurements XVII 2015 / p. 381-391 : ill <http://dx.doi.org/10.2495/CMEM150341>

#### **A first experimental study of fixed-point approximate arithmetic in recursive lattice filters**

Koch, Peter; **Le Moullec, Yannick** 2023 IEEE Nordic Circuits and Systems Conference (NorCAS) 2023 / 6 p. : ill <https://doi.org/10.1109/NorCAS58970.2023.10305450>

#### **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](#)

#### **5G as an enabler of connected-and-automated mobility in European cross-border corridors — a market assessment**

Rizopoulos, Dimitrios; Laskari, Marina; Kouloumbis, Gerasimos; Fergadiotou, Ioanna; Durkin, Patrick; **Kõrbe Kaare, Kati; Alam, Muhammad Mahtab** Sustainability 2022 / art. 14411 <https://doi.org/10.3390/su142114411> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **5G testbed implementation and measurement campaign for ground and aerial coverage**

**Fjodorov, Aleksei; Masood, Ali; Alam, Muhammad Mahtab**; Päränd, Sven 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. <https://doi.org/10.1109/BEC56180.2022.9935602>

#### **Flexible data acquisition system with custom front-end for ultrasonic NDT research**

**Peng, Chengxiang; Ratassepp, Madis; Annus, Paul; Rist, Marek; Land, Raul; Märtens, Olev** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p <https://doi.org/10.1109/BEC61458.2024.10737989> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **A flexible enhanced throughput and reduced overhead (FETRO) MAC protocol for ETSI SmartBAN**

**Khan, Rida; Alam, Muhammad Mahtab**; Guizani, Mohsen IEEE Transactions on Mobile Computing 2022 / p. 2671-2686 : ill <https://doi.org/10.1109/TMC.2020.3047596> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Flexible inductive coils for wearable cardiorespiratory activity monitoring [Online resource]**

**Metshein, Margus; Annus, Paul; Min, Mart** 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.2018.8600990>

#### **Flight control of vectored thrust aerial vehicle by neural network predictive controller for enhanced situational awareness**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** World Academy of Science, Engineering and Technology 2013 / p. 77-81 : ill

#### **Foreign object induced fiber undulation influence on mechanical properties of composite laminate**

**Herranen, Henrik; Lend, Henri; Kuusik, Alar**; Czichon, Steffen; **Kers, Jaan; Piirlaid, Marko** International Conference on Composite Materials 2013 (ICCM-19) : Montreal, Quebec, Canada, 28 July-2 August 2013 : [proceedings] 2013 / p. 837-844

#### **Foreword : [selected papers of the 19th Biennial Conference on Electronics and Embedded Systems 2024 (BEC 2024), that took place on October 2-4, 2024, in Tallinn, Estonia]**

**Le Moullec, Yannick; Ellervee, Peeter** Proceedings of the Estonian Academy of Sciences 2025 / p. 267-268

**Formation of Diffusion welded Al contacts to semiconductor silicon carbide**  
**Korolkov, Oleg** 2004

**Four-span dispersion map optimization for improved nonlinearity mitigation in phase-sensitive amplifier links**  
**Astra, Egon; Eliasson, Henrik; Andrekson, Peter Avo** 2017 European Conference on Optical Communication (ECOC 2017), Gothenburg, Sweden, 17-21 September 2017 2017 / p. 424-426 : ill <https://doi.org/10.1109/ECOC.2017.8345968>

**FPGA-based 16-bit 20 MHz device for the inductive measurement of electrical bio-impedance**  
**Priidel, Eiko; Pesti, Ksenija; Min, Mart; Ojarand, Jaan; Märten, Olev** 2021 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2021), May 17-20, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/I2MTC50364.2021.9460073>

**Fractional Fourier transform-based signal separation for ultrasonic guided wave inspection of plates**  
**Peng, Chengxiang; Annus, Paul; Rist, Marek; Land, Raul; Ratassepp, Madis** Sensors 2024 / art. 7564  
<https://doi.org/10.3390/s24237564> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Frequency and power allocation schemes for heterogeneous networks including femto cells**  
**Ahmed, Tauseef; Le Moullec, Yannick** 2015 23rd Telecommunications Forum (TELFOR) : Belgrade, Serbia, November, 24-26, 2015 : proceedings of papers = XXIII Телекомуникациони Форум ТЕЛФОР 2015 : зборник радова 2015 / p. 277-280 : ill <http://dx.doi.org/10.1109/TELFOR.2015.7377464>

**Frequency-optimized rectangular pulses for deep brain stimulation**  
**Gordon, Rauno; Min, Mart; Land, Raul** International journal of bioelectromagnetism 2015 / p. 13-19 : ill

**Frequency-optimized rectangular pulses for deep brain stimulation**  
**Gordon, Rauno; Min, Mart; Land, Raul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

**From basic foundations to future developments : introductory chapter**  
**Min, Mart** Cardiac Pacing and Monitoring : New Methods, Modern Devices 2019 / p. 1-7 <http://dx.doi.org/10.5772/intechopen.85674>

**A fully differential, 200MHz, programmable gain, level-shifting, hybrid amplifier/power combiner/test buffer, using pre-distortion for enhanced linearity**  
**Kampus, Vahur; Rang, Toomas; Knaller, Daniel** PRIME 2018 : 14th Conference on PhD Research in Microelectronics and Electronics 2018 / p. 5-8 : ill <https://doi.org/10.1109/PRIME.2018.8430372>

**Functional self-test of high-performance pipe-lined signal processing architectures**  
**Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart** Microprocessors and microsystems 2015 / p. 909-918 : ill <https://doi.org/10.1016/j.micpro.2014.11.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fundamentals, recent advances, and future challenges in bioimpedance devices for healthcare applications**  
**Naranjo-Hernandez, David; Reina-Tosina, Javier; Min, Mart** Journal of sensors 2019 / art. 9210258, 42 p. : ill  
<https://doi.org/10.1155/2019/9210258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**FYPsim : an estimation framework for energy harvesting and energy prediction for WSNs**  
**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** 2016 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW) : Nantou County, Taiwan, 27-29 May 2016 2016 / p. 291-292 : ill <https://doi.org/10.1109/ICCE-TW.2016.7521033>

**FYPsim : evaluation tool for solar-based energy harvesting for WSNs**  
**Ahmed, Faisal; Le Moullec, Yannick; Annus, Paul** International journal of bioelectromagnetism 2015 / p. 75-86 : ill

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

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

**Grey wolf optimizer-based task scheduling for IoT-based applications in the edge computing**  
**Satouf, Aram; Hamidoglu, Ali; Gul, Omer Melih; Kuusik, Alar** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 53-57 <https://doi.org/10.1109/FMEC59375.2023.10306148>

**Grid-based computational algorithm for accurate AC conductivity measurements**  
**Pokatilov, Andrei; Parker, Martin; Kübarsepp, Toomas; Märten, Olev; Kolyshkin, Andrei** 16th International Congress of Metrology 2013 / p. 1-4 : ill

### **Guided wave tomography of pipe bends based on full waveform inversion**

**Rasgado Moreno, Carlos Omar; Rist, Marek; Land, Raul; Ratassepp, Madis** Ultrasonics 2025 / art. 107560

<https://doi.org/10.1016/j.ultras.2024.107560>

### **Gunshot acoustic event identification and shooter localization in a WSN of asynchronous multichannel acoustic ground sensors**

**Astapov, Sergei; Berdnikova, Julia; Ehala, Johannes; Kaugerand, Jaanus; Preden, Jürjo-Sören** Multidimensional systems and signal processing 2018 / p. 563-595 : ill <https://doi.org/10.1007/s11045-017-0479-7> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

### **Hankel matrix based algorithm for cardiac pulse wave base and peak lines Correction**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Märten, Olev; Metshein, Margus; Lotamõis, Kristina; Rist, Marek** IEEE International Workshop on Medical Measurement and Applications (MEMEA) 2022 / 6 p <https://doi.org/10.1109/MeMeA54994.2022.9856564>

### **Hardware imitation of the varying bioelectrical impedance for testing the device for measurement of the impedance of human trunk by using a JFET**

**Metshein, Margus** 21st 2016 International Conference on Applied Electronics : Pilsen, 6-7 September 2016 2016 / p. 173-176 : ill <https://doi.org/10.1109/AE.2016.7577267>

### **Heuristic radio access network subslicing with user clustering and bandwidth subpartitioning**

**Kulmar, Marika; Mürsepp, Ivo; Alam, Muhammad Mahtab** Sensors 2023 / art. 4613 : ill <https://doi.org/10.3390/s23104613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **High voltage diffusionIwelded stacks on the basis of SiC Schottky diodes**

**Korolkov, Oleg; Sleptšuk, Natalja; Annus, Paul; Land, Raul; Rang, Toomas** ICSRM 2015 : program guide 2015 / p. 73

### **High-accuracy eddy current measurements of metals**

**Märten, Olev; Land, Raul; Rist, Marek; Pokatilov, Andrei** 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 155-160 : ill

### **High-voltage diffusionIwelded stacks on the basis of SiC Schottky diodes**

**Korolkov, Oleg; Sleptšuk, Natalja; Annus, Paul; Land, Raul; Rang, Toomas** Silicon carbide and related materials 2015 (ICSRM 2015) : selected, peer reviewed papers from the 16th International Conference on Silicon Carbide and Related Materials, October 4-9, 2015, Giardini Naxos, Italy 2016 / p. 790-794 : ill <https://doi.org/10.4028/www.scientific.net/MSF.858.790> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Hindamatud mälestused ei pruugi säilida moodsatel andmekandjatel kuigi kaua**

Piir, Rait novaator.err.ee 2024 [Hindamatud mälestused ei pruugi säilida moodsatel andmekandjatel kuigi kaua](#)

### **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>

### **Home rehabilitation system supported by the safety model**

**Kuusik, Alar; Sarna, Külli; Reilent, Enar** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 145-151 : ill

### **Home telecare and rehabilitation system with aspect oriented functional integration**

**Kuusik, Alar; Reilent, Enar; Sarna, Külli; Parve, Marko** Biomedical Engineering = Biomedizinische Technik ; 57 2012 / p. 1004-1007 : ill <https://pubmed.ncbi.nlm.nih.gov/23096276/>

### **How many frequencies to use in electrical bioimpedance measurement?**

**Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 24-25 : ill

### **How many frequencies to use in electrical bioimpedance measurements**

**Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 161-168 : ill <http://doi.org/10.1515/9783110558920-016>

### **Human limb model structure optimization with genetic algorithm**

**Nõmm, Sven; Vassiljeva, Kristina; Kuusik, Alar** EMS2013 : UKSim-AMSS 7th European Modelling Symposium, 20-22 November 2013, Manchester, United Kindgom : [proceedings] 2013 / p. 124-129

### **Hydromast : a bioinspired flow sensor with accelerometers**

**Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kuusik, Alar; Kruusmaa, Maarja** Biomimetic and biohybrid systems : 5th

International Conference, Living Machines 2016, Edinburgh, UK, July 19-22, 2016 : proceedings 2016 / p. 510-517 : ill  
[https://doi.org/10.1007/978-3-319-42417-0\\_55](https://doi.org/10.1007/978-3-319-42417-0_55) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

#### **Hydromorphological classification using synchronous pressure and inertial sensing**

**Ristolainen, Asko; Kalev, Kaia; Tuhtan, Jeffrey Andrew; Kuusik, Alar; Kruusmaa, Maarja** IEEE transactions on geoscience and remote sensing 2018 / p. 3222-3232 : ill <https://doi.org/10.1109/TGRS.2018.2795641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Image based counterfeit coin validation**

**Gavrijaševa, Alina; Märten, Olev** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 153-156 : ill

#### **Image processing solutions for precise road profile measurement systems = Pilditöötuse lahendused täpsetele tee profiili mõõtesüsteemidele**

**Mölder, Ago** 2015 [https://www.ester.ee/record=b4476678\\*est](https://www.ester.ee/record=b4476678*est)

#### **Immunodetection of Streptococcus uberis pathogen in raw milk**

**Mihklepp, Kaisa; Kivirand, Kairi;** Juronen, Delia; **Lõökene, Aivar;** Rinken, Toonika Enzyme and microbial technology 2019 / art. 109360, 6 p. : ill <https://doi.org/10.1016/j.enzmitec.2019.109360> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Impact of CFO on low latency-enabled UAV using "Better than Nyquist" pulse shaping in GFDM**

**Sharma, Navuday;** Kumar, Atul; Magarini, Maurizio; Bregni, Stefano 2019 IEEE 89th Vehicular Technology Conference (VTCSpring), Kuala Lumpur, Malaysia, 28 April–1 May 2019 : proceedings 2019 / 6 p. : ill  
<https://doi.org/10.1109/VTCSpring.2019.8746309> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Impact of power allocation on device-to-device discovery processes**

**Osman, Essam Abdelsalam; Khan, Muhidul Islam;** Elgarhy, Osama Mohamed Mostafa; Reggiani, Luca; Mahtab, Muhammad BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p <https://doi.org/10.1109/BEC.2018.8600961>

#### **The Impact of RAN slice bandwidth subpartitioning on slice performance**

**Kulmar, Marika; Müürsepp, Ivo; Alam, Muhammad Mahtab** 2022 International Wireless Communications and Mobile Computing (IWCMC) 2022 / p. 419-424 <https://doi.org/10.1109/IWCMC55113.2022.9825262>

#### **The impedance cardiography device : patent application**

**Märten, Olev; Abdullayev, Anar; Metshein, Margus;** Gautier, Antoine; Frappe, Antoine; **Krivošei, Andrei; Rist, Marek; Annus, Paul;** Larras, Benoit; John, Deepu; Cardiff, Barry 2023 <https://www1.epa.ee/patent/kirjeldus/P202200004.pdf>  
[https://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=2023320606A1&KC=A1&FT=D&ND=3&date=20231012&DB=&locale=en\\_EP](https://worldwide.espacenet.com/publicationDetails/originalDocument?CC=US&NR=2023320606A1&KC=A1&FT=D&ND=3&date=20231012&DB=&locale=en_EP)

#### **Impedance cardiography signal processing with Savitzky-Golay and frequency sampling kernels**

**Märten, Olev; Metshein, Margus; Tamberg, Gert; Abdullayev, Anar** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 p <https://doi.org/10.1109/BEC56180.2022.9935597>

#### **Impedance detection**

**Min, Mart; Parve, Toomas;** Pliquet, Uwe Encyclopedia of microfluidics and nanofluidics. 2nd ed 2015 / p. 1338-1361 : ill

#### **Impedance measurement solution based on the high time resolution DSP**

**Märten, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek** 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020  
<https://doi.org/10.1109/I2MTC43012.2020.9128843>

#### **Implementation and benchmarking of a novel routing protocol for tactical mobile ad-hoc networks**

Ben Arbia, Dhafer; **Alam, Muhammad Mahtab;** Kadri, Abdullah; Attia, Rabah; Ben Hamida, Elyes 2016 IEEE 12th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) : 17-19 October 2016, New York, NY, USA 2016 / p. 118-125 : ill <https://doi.org/10.1109/WiMOB.2016.7763188>

#### **Implementation and demonstration of a device-to-device communication system for emergency and critical scenarios = Seadmetevahelise sidesüsteemi rakendamise ja demonstreerimine hädaolukorra ja kriitiliste juhtumite jaoks**

**Masood, Ali** 2022 <https://doi.org/10.23658/taltech.30/2022> <https://digikogu.taltech.ee/et/Item/e1879ff7-ee31-4a7b-aa26-01bd973f889f>  
[https://www.ester.ee/record=b5502340\\*est](https://www.ester.ee/record=b5502340*est)

#### **Improved extraction of information in bioimpedance measurements**

**Min, Mart; Paavle, Toivo** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 78 : ill <https://doi.org/10.1088/1742->

**Improved impedance analyzer with binary excitation signals**

**Märtens, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek;** Reidla, Marko 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 25-29 : ill

**Improved mitigation of self-phase modulation induced impairments in 28 GBaud phase-sensitive amplified links**

**Astra, Egon;** Eliasson, Henrik; **Ruuben, Toomas;** Andrekson, Peter Avo Optics express 2019 / p. 4304-4316 : ill  
<https://doi.org/10.1364/OE.27.004304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved PWM-based sinewave generation : example of the impedance measurement**

**Abdullayev, Anar; Annus, Paul; Krivošei, Andrei; Metshein, Margus; Märtens, Olev;** Rist, Marek Automatic control and computer sciences 2023 / p. 449-458 <https://doi.org/10.3103/S0146411623050024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improvement of lock-in signal converters for application in electrical bio-impedance measurement**

**Parve, Toomas** 2000 [http://www.ester.ee/record=b1707856\\*est](http://www.ester.ee/record=b1707856*est)

**Improving response time of task and Adaboost classifiers in mobile fog computing**

Darbanian, Elham; **Rahbari, Dadmehr;** Ghanizadeh, Roghayeh; Nickray, Mohsen Jordanian journal of computers and information technology 2020 / p. 345-360 <https://www.ejmanager.com/mnstemps/71/71-1590557276.pdf?t=1608030630>

**Induction brazing of cermets to steel and eddy current testing of joint quality**

**Laansoo, Andres; Kübarsepp, Jakob; Surženkov, Andrei; Land, Raul; Märtens, Olev; Viljus, Mart** Welding in the World 2020 / p. 563-571 <https://doi.org/10.1007/s40194-020-00854-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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>

**Influence of the proton irradiation temperature on the characteristics of high-power high-voltage silicon carbide schottky diodes**

Kozlovski, Vitali V.; **Korolkov, Oleg;** Davydovskaya, Klavdia S.; Lebedev, Alexander A.; Levinshtein, Michael E.; **Sleptšuk, Natalja;** Strel'Chuk, Anatolii M.; **Toompuu, Jana** Technical Physics Letter 2020 / p. 287 - 289 <https://doi.org/10.1134/S1063785020030244>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kuuenda aastakonverentsi artiklite kogumik : 3.-5. oktoobril 2012, Laulasmaa**

2012 [http://www.ester.ee/record=b2880291\\*est](http://www.ester.ee/record=b2880291*est)

**Infotehnoloogia teaduskond**

**Gordon, Boris; Velmre, Enn; Einer, Lauri; Tamm, Uljas; Meister, Ants; Korsen, Viljo; Märtens, Olev; Parve, Toomas; Ubar, Raimund-Johannes; Min, Mart** Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 34-47 : ill  
[https://www.ester.ee/record=b2412718\\*est](https://www.ester.ee/record=b2412718*est)

**Inhomogeneity correction in calibration of electrical conductivity standards**

**Pokatilov, Andrei; Parker, Martin;** Kolyshkin, Andrei; **Märtens, Olev; Kübarsepp, Toomas** Measurement 2013 / p. 1535-1540 : ill  
<https://doi.org/10.1016/j.measurement.2012.12.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Instrument-free Lab-on-a-Chip DNA amplification test for pathogen detection [Online resource]**

**Pardy, Tamas; Rang, Toomas;** Kremer, Clemens; Tulp, Indrek 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.2018.8600991>

**Integraallülitus**

**Velmre, Enn** TEA entsüklopeedia. 9. köide, indeen - Kallak 2012 / lk. 59-60 [https://www.ester.ee/record=b2869027\\*est](https://www.ester.ee/record=b2869027*est)

**Integrated labs for electrical engineering courses in competence based learning environment - practical experience**

**Jaanus, Martin; Umbleja, Kadri; Udal, Andres; Pärnamets, Kaiser** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818266>

**Integrated self-regulating resistive heating for isothermal nucleic acid amplification tests (NAAT) in Lab-on-a-Chip (LoC) devices**

**Pardy, Tamas;** Tulp, Indrek; Kremer, Clemens; **Rang, Toomas;** Stewart, Ray PLoS ONE 2017 / p. 1-11 : ill

**Intelligent resource management in mobile edge computing for IIoT applications**

2020 <https://www.sciencedirect.com/journal/computer-communications/special-issue/10TQNXCF0J>

**Inter O-DUs coordination for scheduling of massive users in O-RAN**

**Latif, Aamir; Alam, Muhammad Mahtab; Le Moullec, Yannick** 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) 2023 / p. 6 <https://doi.org/10.1109/EuCNC/6GSummit58263.2023.10188234>

**Inter-cell interference reduction scheme for uplink transmission in NB-IoT Systems**

**Mwakwata, Collins Burton; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick; Alam, Muhammad Mahtab; Päränd, Sven; Annus, Ivar** IWCMC 2021 Wireless Sensors & IoT: 2021 International Wireless Communications and Mobile Computing (IWCMC), Harbin, China, June 28 - July 2, 2021 2021 / p. 400-405 <https://doi.org/10.1109/IWCMC51323.2021.9498970>

**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; Driberg, Micheal** IEEE Access 2019 / art. 8910561, p. 168736–168751 : ill [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Interference-aware radio resource allocation for 5G ultra-reliable low-latency communication**

**Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Ni, Qiang** 2018 IEEE Globecom Workshops (GC Wkshps) : proceedings 2018 / p. <https://doi.org/10.1109/GLOCOMW.2018.8644301>

**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>

**Introductory chapter : why do we need rapid detection of pathogens?**

**Kivirand, Kairi; Rinken, Toonika** Biosensing technologies for the detection of pathogens - a prospective way for rapid analysis 2018 / 4 p <https://doi.org/10.5772/intechopen.74670>

**Introductory chapter: The prospective of biosensing in environmental monitoring**

**Kivirand, Kairi; Rinken, Toonika** Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.85981>

**Investigation of barrier inhomogeneities and electronic transport on Al-Foil/p-Type-4H-SiCSchottky barrier Diodes using diffusion welding**

**Ziko, Mehadi Hasan; Koel, Ants; Rang, Toomas; Rashid, Muhammad Haroon** Crystals 2020 / p. 636-647 <https://doi.org/10.3390/cryst10080636> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Investigation of cost-effective carbon nanofiber/carbon fiber and silicone polymer composite material for wearable bioimpedance device**

**Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul** 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/SAS.2019.8706026>

**Investigation of deep level centers in i- and n-layers of GaAs pin-diodes**

**Toompuu, Jana; Korolkov, Oleg; Sleptšuk, Natalja; Rang, Toomas** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 25-28 : ill

**Investigation of electrical characteristics of SiC based complementary JBS structures**

**Kurel, Raido** 2005 [https://www.ester.ee/record=b2053292\\*est](https://www.ester.ee/record=b2053292*est)

**Investigation of planar coil for eddy current conductivity measurements in wide frequency range**

**Parker, Martin; Pokatilov, Andrei; Kübarsepp, Toomas; Märtens, Olev; Kolyshkin, Andrei** 19th Symposium IMEKO TC 4 Symposium and 17th IWADC Workshop Advances in Instrumentation and Sensors Interoperability, July 18-19, 2013, Barcelona, Spain 2013 / p. 55-59

**Investigation of signal separation for ultrasonic nondestructive evaluation**

**Peng, Chengxiang; Ratassepp, Madis; Annus, Paul** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l. <https://doi.org/10.1109/BEC56180.2022.9935612>

**Investigation of the graphene-on-silicon-carbide and CVD graphene as a basis for bioimpedance sensor applications : poster**

**Sleptšuk, Natalja; Land, Raul; Toompuu, Jana; Lebedev, Alexander A.; Davydov, Valery; Eliseyev, Ilya; Kalinina, Evgenia; Korolkov, Oleg; Rang, Toomas** ePosters 2018 / 1 p.: ill <https://cdn.technologynetworks.com/ep/pdfs/natalja-sleptuk-a-raul-land-a-jana-toompuu-a-alexander-lebedev-b-valery-davydov-b-ilya-eliseyev-b.pdf>

**Investigation of the intermediate layer in the metal-silicon carbide contact obtained by diffusion welding =**  
**Difusioonkeevitusega valmistatud metalli ja ränikarbiidi vahelise üleminekuala vahekihi uurimine**  
**Sleptšuk, Natalja** 2011 [https://www.ester.ee/record=b2692547\\*est](https://www.ester.ee/record=b2692547*est)

**looneadis**

**Velmre, Enn** TEA entsüklopeedia. 9. köide, indeen - Kallak 2012 / lk. 73 [https://www.ester.ee/record=b2869027\\*est](https://www.ester.ee/record=b2869027*est)

**Ivo Mürsepp: droonid pole vaid taparelv. Nendega võiks Järvevana ummikusse saata näiteks ka defibrillaatori**  
**Mürsepp, Ivo** delfi.ee 2025 <https://forte.delfi.ee/artikkel/120402893/repliik-ivo-mursepp-droonid-pole-vaid-taparelv-nendega-voiks-jarvevana-ummikusse-saata-naiteks-ka-defibrillaatori>

**Ivo Mürsepp: rahastagem vaid erialasid, mida tööturg vajab. Ülejäänud on hobid [Võrguväljaanne]**  
**Mürsepp, Ivo** epl.delfi.ee 2022 [Ivo Mürsepp: rahastagem vaid erialasid, mida tööturg vajab. Ülejäänud on hobid](https://www.ester.ee/record=b2869027*est)

**Jamming of UAV remote control systems using software defined radio**

**Pärilin, Karel; Alam, Muhammad Mahtab; Le Moullec, Yannick** 2018 International Conference on Military Communications and Information Systems (ICMCIS), 22-23 May 2018 : proceedings 2018 / p. 173-178 <http://dx.doi.org/10.1109/ICMCIS.2018.8398711>

**Joint optimization via deep reinforcement learning in wireless networked controlled systems**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** IEEE Access 2022 / p. 67152-67167  
<https://doi.org/10.1109/ACCESS.2022.3185244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Joint PHY-MAC realistic performance evaluation of body-to-body communication in IEEE 802.15.6 and SmartBAN**

**Khan, Rida; Alam, Muhammad Mahtab** The 12th International Symposium on Medical Information and Communication Technology : ISMICT 2018, 26-28 March 2018, University of Technology Sydney 2018 / 6 p.: ill <http://ismict2018.org/images/Docs-2017/ISMICT-2018-Program---Final.pdf> <http://dx.doi.org/10.1109/ISMICT.2018.8573715>

**Jõupooljuhtseadiste numbriliste mudelite väljatöötamine ja rakendamine : ainevaldkond : elektrotehnika : magistritöö**  
**Udal, Andres** 1992 [http://www.ester.ee/record=b2630327\\*est](http://www.ester.ee/record=b2630327*est)

**Jälle Kert Kingo - Eesti pidurdab 5G tulevikutehnoloogiat**

**Mürsepp, I.** epl.delfi.ee 2019 [Jälle Kert Kingo - Eesti pidurdab 5G tulevikutehnoloogiat](https://www.ester.ee/record=b2630327*est)

**Järgnevatel päevadel võib FM-raadio justkui ise kanalit vahetada**

**Saar, Sandra** novaator.err.ee 2023 ["Järgnevatel päevadel võib FM-raadio justkui ise kanalit vahetada"](https://www.ester.ee/record=b2630327*est)

**Kaks uut unikaalset TalTechi magistrikava hakkavad valmistama ette tippspetsialiste strateegiliselt tähtsale IKT valdkonnale**

**digi.geenius.ee** 2023 [Kaks uut unikaalset TalTechi magistrikava hakkavad valmistama ette tippspetsialiste strateegiliselt tähtsale IKT valdkonnale](https://www.ester.ee/record=b2630327*est)

**Kuidas käib masin, mis aitab käia?**

**Vaaks, Eveliis** Trialoog 2025 <https://triloog.taltech.ee/kuidas-kaib-masin-mis-aitab-kaia/>

**Kuidas selja sirgu saab? Insenerid ja arstid arendasid välja nutikorseti!**

**Vill, Ants** director.ee 2022 <https://director.ee/2022/07/14/kuidas-selja-sirgu-saab-insenerid-ja-arstid-arendasid-valja-nutikorseti/>

**Kuulsa füüsiku mälestusmärk TTÜ linnakus : [Thomas Johann Seebecki mälestusmärgi avamine 24. mail 2013]**

**Velmre, Enn** Mente et Manu 2013 / lk. 18 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Kuupsatelliit lõpetas ereda leegiga**

**Imeline** Teadus 2024 / lk. 21 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

**6G-mobiilivõrk peibutab energiasäästu ja täppis-andmesidega**

**Oidermaa, Jaan-Juhan** novaator.err.ee 2023 [6G-mobiilivõrk peibutab energiasäästu ja täppis-andmesidega](https://www.ester.ee/record=b2747925*est) [Ekspert: 5G jõuab tavakasutusse viie aastaga. 6G tuleb järgmisel kümnendil](#)

**60 aastat elektroonikainstituuti : 1962-2022**

2023 [https://www.ester.ee/record=b5557188\\*est](https://www.ester.ee/record=b5557188*est)

**Kõrgsageduslik lülitirežiimne sünkroondetektor : magistritöö**

**Kuusik, Alar** 1995 [https://www.ester.ee/record=b2680357\\*est](https://www.ester.ee/record=b2680357*est)

**Laia keelutsooniga pooljuhtmaterjalidel põhinevad pooljuhtseadised**

**Rang, Toomas; Rang, Galina** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 169-176 : ill., fot [https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

#### **Laser line detection with sub-pixel accuracy**

**Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 132-135 : ill <https://doi.org/10.5755/j01.eee.20.5.7114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Laser scanner calibration dependency on the line detection method**

**Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 66-69 : ill <https://doi.org/10.5755/j01.eee.21.6.13765> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Latest research trends in gait analysis using wearable sensors and machine learning: A systematic review**

**Saboor, Abdul; Kask, Triin; Kuusik, Alar; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Access 2020 / art. 3022818, p. 167830-167864 <https://doi.org/10.1109/ACCESS.2020.3022818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Limitation of signal amplitudes in bioimpedance spectroscopy**

**Ojarand, Jaan; Rist, Marek; Min, Mart** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 68

#### **Limiting exposure to radiofrequency radiation : the principles and possible criteria for health protection**

**Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie** International Journal of Radiation Biology 2023 / p. 1167-1177 <https://doi.org/10.1080/09553002.2023.2159567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Lock-in integration for detection of tiny bioimpedance variations [Online resource]**

**Priidel, Eiko; Annus, Paul; Metshein, Margus; Land, Raul; Märten, Olev; Min, Mart** 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.2018.8600965>

#### **Long-haul optical transmission link using low-noise phase-sensitive amplifiers**

Olsson, Samuel L. I.; Eliasson, Henrik; **Astra, Egon**; Karlsson, Magnus; Andrekson, Peter Avo Nature communications 2018 / art. 2513, 7 p. : ill <https://doi.org/10.1038/s41467-018-04956-5> [Eesti 27 aastat internetis välismaailmaga: teadlaste uus andmeedastustehnoloogia](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Low noise LDO architecture with consideration for low voltage operation**

Mihhailov, Juri; Strik, Viktor; Strik, Sergei; **Rang, Toomas** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 41-44 : ill

#### **Low-cost open-source flow velocity sensor for droplet generators**

Prabatama, Nicky Andre; **Jõemaa, Rauno**; Hegedus, Kristof; **Pardy, Tamas** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / p. 1-4 <https://doi.org/10.1109/BEC56180.2022.9935606>

#### **Low-cost, portable dual-channel pressure pump for droplet microfluidics**

**Jõemaa, Rauno; Grosberg, Martin; Rang, Toomas; Pardy, Tamas** 2022 45th Jubilee International Convention on Information, Communication and Electronic Technology (MIPRO), 23-27 May 2022, Opatija, Croatia : proceedings 2022 / p. 205-211 : ill <https://doi.org/10.23919/MIPRO55190.2022.9803371>

#### **Low-temperature annealing of lightly doped n-4H-SiC layers after irradiation with fast electrons**

**Korolkov, Oleg**; Kozlovski, Vitali V.; Lebedev, Alexander A.; **Sleptšuk, Natalja; Toompuu, Jana; Rang, Toomas** Semiconductors 2019 / p. 975-978 <https://doi.org/10.1134/S1063782619070133> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **LQG flight control of VTAV for enhanced situational awareness**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** World Academy of Science, Engineering and Technology. International journal of mechanical, industrial science and engineering 2013 / p. 981-986 : ill

#### **Lucia Compendium : Sustainable and Smart Urban Lighting**

Bunte, Heike; Jacob, Thomas; Haapanen, Topi; Enevold, Sif; **Le Moullec, Yannick** 2020 <https://digikogu.taltech.ee/et/Item/f4d273f6-e506-4b7f-b658-13bc225b6960> [https://www.ester.ee/record=b5375097\\*est](https://www.ester.ee/record=b5375097*est)

#### **LUCIA Compendium. Volume 2 : deployment of sustainable and smart urban lighting**

**Korõtko, Tarmo**; Bunte, Heike; Tallo, Eva; Šponberga, Ieva; Potrykus, Yolanda; Nurulin, Yuri; Axelsen, Teddy Sibbern 2022 <https://lucia-project.eu/wp-content/uploads/2022/04/LUCIA-Compendium-vol2.pdf> [https://www.ester.ee/record=b5495404\\*est](https://www.ester.ee/record=b5495404*est)

## **Maaailma muutvad tilgad**

**Pardy, Tamas; Vaaks, Eveliis** Trialoog 2025 <https://trialog.taltech.ee/maailma-muutvad-tilgad/>

## **A machine learning approach to achieving energy efficiency in relay-assisted LTE-a downlink system**

Hassan, Hammad; Ahmed, Ifran; Ahmad, Rizwan; Khammari, Hedi; Bhatti, Ghulam; Ahmed, Waqas; **Alam, Muhammad Mahtab** Sensors 2019 / art. 3461, 25 p. : ill <https://doi.org/10.3390/s19163461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Machine learning meets communication networks : current trends and future challenges**

Ahmad, Ijaz; Shahabuddin, Shariar; Malik, Hassan; Leppänen, Teemu; Loven, Lauri; Anttonen, Antti; Sodhro, Ali Hassan; **Alam, Muhammad Mahtab**; Juntti, Markku; Ylä-Jääski, Antti IEEE Access 2020 / art. 9274307, p. 223418-223460 <https://doi.org/10.1109/ACCESS.2020.3041765> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Machine learning techniques for wireless-powered ambient backscatter communications : enabling intelligent iot networks in 6g era**

Jameel, Furqan; **Sharma, Navuday**; Khan, Muhammad Awais; Khan, Imran; **Alam, Muhammad Mahtab**; Alam, Muhammad Mahtab; Mavromoustakis, Constandinos X. Internet of Things / 2020 [https://doi.org/10.1007/978-3-030-44907-0\\_8](https://doi.org/10.1007/978-3-030-44907-0_8) [Article collection](#) [metrics at Scopus](#) [Article at Scopus](#)

## **Magnetic induction sensor for the respiration monitoring**

Ojarand, Jaan; Pille, Siim; **Min, Mart; Land, Raul; Oleitsuk, J.** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

## **Majanduskomisjon 2010–2016**

**Rang, Toomas** Uuele kvaliteedile ja vääriskale positsioonile : Tallinna Tehnikaülikool 2000-2015 2018 / lk. 248-263 [http://www.ester.ee/record=b4775778\\*est](http://www.ester.ee/record=b4775778*est) <https://digi.lib.ttu.ee/i/?10910>

## **Management closed control loop automation for improved RAN slice performance by subslicing**

**Kulmar, Marika; Alam, Muhammad Mahtab; Mürsepp, Ivo** IEEE Access 2024 / p. 103082-103095 <https://doi.org/10.1109/ACCESS.2024.3433475> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article WOS](#)

## **Management closed control loop automation for improved RAN slice performance by subslicing : preprint**

**Kulmar, Marika; Alam, Muhammad Mahtab; Mürsepp, Ivo** techrxiv.org 2023 / 18 p. : ill <https://doi.org/10.36227/techrxiv.170290948.88447519/v1>

## **Managing critical nodes in UAV assisted disaster networks**

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

## **Mart Min: ülikool on läbi aegade olnud vabameelne ja algatustele avatud**

**Min, Mart** Ment et Manu 2025 / lk. 32-33 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

## **Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist**

Alvela, Ain ohtuleht.ee 2024 [Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist](#)

## **Materials and contact characterisation VIII**

2017 <https://www.witpress.com/books/978-1-78466-197-7>

## **Mathematical and physical modelling of dynamic electrical impedance = Dünaamilise impedantsi matemaatiline ja füüsikaline modelleerimine**

**Giannoukos, Georgios** 2016 <https://digi.lib.ttu.ee/i/?5654> [https://www.ester.ee/record=b4579206\\*est](https://www.ester.ee/record=b4579206*est)

## **Mathematical and physical modelling of the dynamic electrical bioimpedance**

**Giannoukos, Georgios; Min, Mart** International journal of circuits, systems and signal processing 2014 / p. 600-606 : ill <https://www.naun.org/main/NAUN/circuitssystemsignal/2014/a542005-049.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

## **Mathematical and physical modelling of the dynamic electrical impedance of a tooth**

**Giannoukos, Georgios; Min, Mart** Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850002-1 - 850002-4 <https://doi.org/10.1063/1.4913057> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **Mathematical and physical modelling of the dynamic fluidic impedance of arteries using electrical impedance equivalents**

**Giannoukos, Georgios; Min, Mart** Mathematical methods in the applied sciences 2014 / p. 711 - 717 : ill <https://doi.org/10.1002/mma.2829> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Mathematical modelling of the dynamic electrical impedance of a parallel RC circuit using a Wien bridge oscillator**

**Giannoukos, Georgios; Min, Mart** Journal of computational methods in sciences and engineering 2015 / p. 287-293  
<https://doi.org/10.3233/JCM-150543> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Matrix Profile based anomaly detection in streaming gait data for fall prevention**

Gerazov, Branislav; Hadjieva, Elena; **Krivošei, Andrei; Sanchez, Fiorella Ines Soto; Rostovski, Jakob; Kuusik, Alar; Alam, Muhammad Mahtab** 2023 30th International Conference on Systems, Signals and Image Processing (IWSSIP) 2023 / p. 1-5  
<https://doi.org/10.1109/IWSSIP58668.2023.10180243>

**A method and device for synthesizing binary waveforms : patent application**

**Märtens, Olev; Abdullayev, Anar; Metshein, Margus; Rist, Marek; Annus, Paul; Krivošei, Andrei** 2024

[https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20250115&DB=EPODOC&locale=en\\_EP&CC=EE&NR=202300017A&KC=A&ND=5](https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20250115&DB=EPODOC&locale=en_EP&CC=EE&NR=202300017A&KC=A&ND=5)  
[https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20241219&DB=EPODOC&locale=en\\_EP&CC=US&NR=2024421805A1&KC=A1&ND=4](https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20241219&DB=EPODOC&locale=en_EP&CC=US&NR=2024421805A1&KC=A1&ND=4)

**Method and system for real-time motion abnormality detection**

**Krivošei, Andrei; Kuusik, Alar; Rostovski, Jakob; Alam, Muhammad Mahtab** 2024

[https://patentscope2.wipo.int/search/ar/detail.jsf;jsessionid=4F73F7EDD8684B2050668D97A6E3E4BC?docId=WO2024257016&\\_cid=JP2-M52SGO-27841-1](https://patentscope2.wipo.int/search/ar/detail.jsf;jsessionid=4F73F7EDD8684B2050668D97A6E3E4BC?docId=WO2024257016&_cid=JP2-M52SGO-27841-1)

**Method for wideband signal digitizing and their real-time reconstruction in enlarged dynamic range**

Biblinskis, I.; Sudars, K.; **Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 110-113 : ill  
<https://doi.org/10.5755/j01.eee.20.6.7279> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A method of intra-ventricular bioimpedance spectroscopy to estimate the dynamic volume of right ventricle**

**Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 169–176 : ill <https://doi.org/10.1515/9783110558920-017>

**The method of quantum optical communication based on entangled photon pairs**

**Udal, Andres; Jaanus, Martin; Umbleja, Kadri; Reeder, Reeno** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 33-36 : ill

**Method of samples preparation intended for research of deep centers in i-, n-, and p-layers of GaAs p<sup>+</sup>-pin-n<sup>+</sup> structures and result of analysis**

**Toompuu, Jana; Sleptšuk, Natalja; Korolkov, Oleg; Rang, Toomas** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 35-38 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**Methods for detection of bioimpedance variations in resource constrained environments**

**Priidel, Eiko; Annus, Paul; Krivošei, Andrei; Rist, Marek; Land, Raul; Min, Mart; Märtens, Olev** Sensors 2020 / art. 1363, 16 p. : ill <https://doi.org/10.3390/s20051363> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Methods for increased sensitivity and scope in automatic segmentation and detection of lung nodules in CT images**

**Gupta, Anindya; Märtens, Olev; Le Moullec, Yannick; Saar, Tõnis** The 15th IEEE International Symposium on Signal Processing and Information Technology ISSPIT 2015 : December 7-10, 2015, Abu Dhabi, UAE : proceedings 2015 / p. 370-375 : ill

**Microfluidic droplet classification through tuned convolutional neural network on a resource constrained platform**

**Afrin, Fariha; Le Moullec, Yannick; Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p  
<https://doi.org/10.1109/BEC61458.2024.10737958> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Microfluidic Droplet Detection, Classification and Quality Assessment for Embedded Flow Cytometry Systems = Tilkade tuvastamine mikrofluidikas, nende klassifitseerimine ja kvaliteedi hindamine sardsetes voolutsütomeetria süsteemides**

**Afrin, Fariha** 2025 [https://www.ester.ee/record=b5758191\\*est](https://www.ester.ee/record=b5758191*est) <https://digikogu.taltech.ee/et/Item/fa72df11-6487-4314-bd3d-5a7b1f5a263e>  
<https://doi.org/10.23658/taltech.57/2025>

**Microheating solution for molecular diagnostics devices = Mikrosoojendamise molekulaardiagnostika seadistes**

**Pardy, Tamas** 2018 <https://digi.lib.ttu.ee/i/?9249> [https://www.ester.ee/record=b4759173\\*est](https://www.ester.ee/record=b4759173*est)

**Militaarobjektide valvetehnoloogia areng**

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

**Model based method for adaptive decomposition of the thoracic bio-impedance variations into cardiac and respiratory components = Mudelipõhine meetod torso bioimpedantsi muutuste adaptiivseks dekompositsiooniks südame- ja hingamise komponentideks**

**Krivošei, Andrei** 2009 [https://www.ester.ee/record=b2508758\\*est](https://www.ester.ee/record=b2508758*est)

### **Model-based service provisioning in optical networks**

Karunakaran, Vignesh; Müller, Jasper; Slyne, Frank; **Kaeval, Kaida**; Troia, Sebastian; Autenrieth, Achim; Kilper, Daniel C.; Bauschert, Thomas; Ruffini, Marco ECOC 2023 : 49th European Conference on Optical Communications, 1-5 October 2023 2024 / p. 1039-1042 <https://doi.org/10.1049/icp.2023.2429> <https://digital-library.theiet.org/docserver/fulltext/cp839/ICP.2023.2429.pdf?expires=1727158709&id=id&accname=guest&checksum=7B52C0279E1600FDE3FC6BCECED8CE4F> Conference Proceedings at Scopus Article at Scopus

### **Model-based system architecture for event-triggered wireless control of bio-analytical devices**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** 2021 24th Euromicro Conference on Digital System Design (DSD), 01-03 September 2021 2021 / p. 465–471 : ill <https://doi.org/10.1109/DSD53832.2021.00076>

### **Modeling and implementation of linear energy prediction for energy harvesting in intermittently powered wireless sensor nodes = Katkendliku toitega traadita sensorsõlmede energiakorje tulemuse lineaarne ennustus, modelleerimine ja rakendused**

**Ahmed, Faisal** 2018 <https://digi.lib.ttu.ee/i/?9955> [https://www.ester.ee/record=b5056543\\*est](https://www.ester.ee/record=b5056543*est)

### **Modeling and simulations of 4H-SiC/6H-SiC/4H-SiC single quantum-well light emitting diode using diffusion bonding technique**

Rashid, Muhammad Haroon; **Koel, Ants; Rang, Toomas** Micromachines 2021 / art. 1499 <https://doi.org/10.3390/mi12121499> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Modeling the dynamics of lung tissue with pulsating blood-flow in pulmonary arteries for bioimpedance simulation**

**Gordon, Rauno; Annus, Paul** International Workshop on Impedance Spectroscopy : IWIS 2013 : abstract book : September 25-27, 2013, Chemnitz University of Technology, Germany 2013 / p. 94-65 : ill

### **Modelling and experimental characterisation of self-regulating resistive heating elements for disposable medical diagnostics devices**

**Pardy, Tamas; Rang, Toomas**; Tulp, Indrek Materials characterization VII 2015 / p. 263-271 : ill

### **Modelling and experimental characterisation of thermoelectric heating for molecular diagnostics devices**

**Pardy, Tamas; Rang, Toomas**; Tulp, Indrek BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 27-30 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

### **Modelling and simulation of arterial blood pulsation via bioimpedance = Arteriaalse verepulsatsiooni modelleerimine ja simuleerimine bioimpedantsi kaudu**

**Pesti, Ksenija** 2021 [https://www.ester.ee/record=b5436843\\*est](https://www.ester.ee/record=b5436843*est) <https://digikogu.taltech.ee/et/Item/7fe2bc87-aa1a-4214-9971-fc938313bd28> <https://doi.org/10.23658/taltech.34/2021>

### **Modelling of cardiac dynamics and intracardiac bioimpedance = Südame dünaamika ja südamesisese bioimpedantsi modelleerimine**

**Gordon, Rauno** 2007 <https://digi.lib.ttu.ee/i/?147>

### **Modelling of dynamic electrical bioimpedance and measurements safety**

**Giannoukos, Georgios; Min, Mart** AASRI procedia 2014 / p. 12-18 : ill

### **Modelling of the tunneling current in metal alloy contacts to 6H- and 4H-SiC substrates**

**Rang, Toomas** MICROSIM II : simulation and design of microsystems and microstructures 1997 / p. 23-31 : ill

### **Modern methods and devices for cardiac rhythm management : Introductory chapter**

**Min, Mart**; Cismaru, Gabriel Cardiac Rhythm Management - Pacing, Ablation, Devices 2022 <https://doi.org/10.5772/intechopen.104947>

### **A modular 6LoWPAN-based wireless sensor body area network for health-monitoring applications**

**Le Moullec, Yannick; Lecat, Yoann; Annus, Paul; Land, Raul; Kuusik, Alar; Reidla, Marko; Hollstein, Thomas; Reinsalu, Uljana; Tammemäe, Kalle; Ruberg, Priit** APSIPA ASC 2014 : Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 : December 9-12, 2014, Siem Reap, city of Angkor Wat, Cambodia 2014 / [4] p. : ill

### **Modular system for fast impedance spectrum analysis of biomedical objects**

**Rist, Marek; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Parve, Toomas; Annus, Paul** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 151 : ill

### **Modular system for spectral analysis of time-variant impedances**

**Rist, Marek; Reidla, Marko; Land, Raul; Parve, Toomas; Märten, Olev; Annus, Paul; Ojarand, Jaan; Min, Mart** 6th European Conference of the International Federation for Medical and Biological Engineering : MBEC 2014, 7-11 September 2014, Dubrovnik,

Croatia 2015 / p. 858-861 : ill [https://doi.org/10.1007/978-3-319-11128-5\\_213](https://doi.org/10.1007/978-3-319-11128-5_213) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Modular, dual-tone piezoelectric micropump driver for low-cost, portable droplet generation**

**Jõemaa, Rauno; Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p

<https://doi.org/10.1109/BEC61458.2024.10737948> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Motion control of an autonomous surface vessel for enhanced situational awareness**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** World Academy of Science, Engineering and Technology. International journal of mechanical, industrial science and engineering 2013 / p. 1203-1208 : ill

**Motion control of vectored thrust aerial vehicle for enhanced situational awareness**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** Mathematical applications in science and mechanics : [proceedings of the conferences : Dubrovnik, Croatia, June 25-27, 2013] 2013 / p. 59-64 : ill

**A multi-armed bandit solver method for adaptive power allocation in device-to-device communication**

**Khan, Muhidul Islam; Alam, Muhammad Mahtab; Le Moullec, Yannick** Procedia computer science 2018 / p. 1069-1076

<https://doi.org/10.1016/j.procs.2018.04.155> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Multichannel bioimpedance spectroscopy : instrumentation methods and design principles = Paljukanaliline bioimpedantsspektroskoopia : mõõtemetodid ja disaini printsiibid**

**Annus, Paul** 2009 [http://www.ester.ee/record=b2557759\\*est](http://www.ester.ee/record=b2557759*est)

**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 multi-objective reinforcement learning framework for dynamic NOMA-based resource allocation in 6G mMTC networks**

**Latif, Aamir; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick; Alam, Muhammad Mahtab** Future Frontiers : PhD

Conference on Emerging Technologies : Book of Abstracts 2025 / p. 24 ; oral 14 [https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts\\_pub3.pdf](https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf)

**A multi-perspective methodology for agent-oriented business modelling and simulation**

**Taveter, Kuldar** 2004 [http://www.ester.ee/record=b1910546\\*est](http://www.ester.ee/record=b1910546*est)

**Mõõtetehnilised lülitrežiimsed sünkroonmudelid : magistritöö**

**Parve, Toomas** 1992 [http://www.ester.ee/record=b2630384\\*est](http://www.ester.ee/record=b2630384*est)

**Nafion as a protective membrane for screen-printed pH-sensitive ruthenium oxide electrodes**

**Lazouskaya, Maryna; Tamm, Martti; Scheler, Ott; Uppuluri, Kiranmai; Zaraska, Krzysztof** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276822>

**Nano- and Micro-Scale simulations of Ge/3C-SiC and Ge/4H-SiC NN-heterojunction diodes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Silicon Carbide and Related Materials 2019 : 18th International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), Kyoto, Japan, September 29 - October 4, 2019

Materials science forum 2020 / p. 490-496 <https://doi.org/10.4028/www.scientific.net/MSF.1004.490> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Nano and micro-scale simulations of Si/4H-SiC and Si/3C-SiC NN-heterojunction diodes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 357-361 <https://doi.org/10.4028/www.scientific.net/MSF.963.357> [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Nanoparticulate dielectric overlayer for enhanced electric fields in a capacitive deionization device**

**Laxman, Karthik; Kimoto, Daiki; Sahakyan, Armen; Dutta, Joydeep** ACS applied materials and interfaces 2018 / 8 p. : ill. <https://doi.org/10.1021/acsami.7b16540> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nanoscale and microscale simulations of N-N junction heterostructures of 3C-4H silicon carbide**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas; Gähwiler, Reto; Grosberg, Martin; Jõemaa, Rauno** Materials and contact characterisation VIII 2017 / p. 235-248 : ill <https://doi.org/10.2495/MC170241> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 1, Tuumik-sõnavara = Nanotechnologies : vocabulary. Part 1, Core terms (ISO/TS 80004-1:2015)**

2016 [http://www.ester.ee/record=b4601747\\*est](http://www.ester.ee/record=b4601747*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 2, Nanoobjektid = Nanotechnologies : vocabulary. Part 2, Nano-objects (ISO/TS 80004-2:2015)**

2017 [https://www.ester.ee/record=b4697338\\*est](https://www.ester.ee/record=b4697338*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 3, Süsinik-nanoobjektid = Nanotechnologies : vocabulary. Part 3, Carbon nano-objects (ISO/TS 80004-3:2010)**

2015 [http://www.ester.ee/record=b4454176\\*est](http://www.ester.ee/record=b4454176*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 4, Nanostruktuur-materjalid = Nanotechnologies : vocabulary. Part 4, Nanostructured materials (ISO/TS 80004-4:2011)**

2015 [http://www.ester.ee/record=b4454176\\*est](http://www.ester.ee/record=b4454176*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 4, Nanostruktuur-materjalid = Nanotechnologies : vocabulary. Part 4, Nanostructured materials (ISO/TS 80004-4:2011)**

2013 [https://www.ester.ee/record=b4459478\\*est](https://www.ester.ee/record=b4459478*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 6, Nanoobjektide karakteriseerimine = Nanotechnologies : vocabulary. Part 6, Nano-object characterization (ISO/TS 80004-6:2013)**

2015 [http://www.ester.ee/record=b4483533\\*est](http://www.ester.ee/record=b4483533*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 6, Nanoobjektide karakteriseerimine = Nanotechnologies : vocabulary. Part 6, Nano-object characterization (ISO/TS 80004-6:2013)**

2015 [http://www.ester.ee/record=b4457416\\*est](http://www.ester.ee/record=b4457416*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 8, Nanootmisprotsessid = Nanotechnologies : vocabulary. Part 8, Nanomanufacturing processes (ISO/TS 80004-8:2013)**

2015 [http://www.ester.ee/record=b4531230\\*est](http://www.ester.ee/record=b4531230*est)

**Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 1, Tuumik-sõnavara = Nanotechnologies : vocabulary. Part 1, Core terms (ISO/TS 80004-1:2010)**

2015 [http://www.ester.ee/record=b4454097\\*est](http://www.ester.ee/record=b4454097*est)

**Narrowband internet of things (NB-IoT) : from physical (PHY) and media access control (MAC) layers perspectives**

**Mwakwata, Collins Burton; Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven; Mumtaz, Shahid** Sensors 2019 / art. 2613, 34 p.: ill <https://doi.org/10.3390/s19112613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Narrowband Internet of Things (NB-IoT) : from physical (PHY) and Media Access Control (MAC) layers perspectives : [an article in collection]**

**Mwakwata, Collins Burton; Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven; Mumtaz, Shahid** Internet of things and sensors networks in 5G wireless communications 2020 / p. 39-72 : ill <https://doi.org/10.3390/books978-3-03928-149-7> <https://doi.org/10.3390/s19112613>

**Narrowband internet of things (NB-IoT) : from radio network coverage to device energy consumption modeling and energy-efficient application = Kitsaribaline asjade internet (NB-IoT) : raadiovõrgu katvusest seadme energiatarbe modelleerimise ja energiasäästliku rakenduseni**

**Khan, Sikandar Muhammad Zulqarnain** 2022 [https://www.ester.ee/record=b5491661\\*est](https://www.ester.ee/record=b5491661*est) <https://digikogu.taltech.ee/et/Item/8244be00-273d-4d45-a34a-27f0f4350d32>

**Narrowband internet of things (NBIIoT) for industrial automation**

**Malik, Hassan; Alam, Muhammad Mahtab; Kuusik, Alar; Le Moullec, Yannick; Päränd, Sven** Wireless automation as an enabler for the next industrial revolution 2020 / p. 65-87 <https://doi.org/10.1002/9781119552635.ch4>

**NarrowBand-IoT performance analysis for healthcare applications**

**Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Kuusik, Alar** Procedia computer science 2018 / p. 1077–1083 <https://doi.org/10.1016/j.procs.2018.04.156> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**An NB-IoT based edge-of-things framework for energy-efficient image transfer**

**Khan, Sikandar Muhammad Zulqarnain; Le Moullec, Yannick; Alam, Muhammad Mahtab** Sensors 2021 / art. 5929, 21 p.: ill <https://doi.org/10.3390/s21175929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**NB-IoT based visual smart waste management system**

**Zulqarnain Khan, Sikandar; Hein, Haigo; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p.: ill <https://doi.org/10.1109/BEC56180.2022.9935601>

#### **NB-IoT network field trial : indoor, outdoor and underground coverage campaign**

**Malik, Hassan; Khan, Sikandar Muhammad Zulqarnain; Sarmiento, Jeffrey Leonel Redondo; Kuusik, Alar; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven** IWCMC 2019 : 15th International Wireless Communications & Mobile Computing Conference (IWCMC), June 24–28, 2019, Tangier, Morocco 2019 / p. 537-542 : ill  
<https://doi.org/10.1109/IWCMC.2019.8766568>

#### **NB-IoT-võrgu uuring : katvus sise-, välis- ja maa-alustes tingimustes**

**Malik, Hassan; Khan, Sikandar Muhammad Zulqarnain; Sarimento, Jeffrey Leonel Redondo; Mwkwata, Collins Burton; Alam, Muhammad Mahtab; Le Menach, Yvonnick; Päränd, Sven** Elektriala 2019 / lk. 14-18 : ill  
[http://www.eester.ee/record=b1240496\\*est](http://www.eester.ee/record=b1240496*est)

#### **Network coding and hierarchical modulation for energy efficient cooperative WBAN**

**Waheed, Maham; Talha, Sadaf; Ahmad, Rizwan; Kiani, Adnan Khalid; Alam, Muhammad Mahtab; Ahmed, Waqas** International journal of distributed systems and technologies 2019 / p. 90-111 <https://doi.org/10.4018/IJDSST.2019070106> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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](#)

#### **Non-destructive eddy current measurements for silicon carbide heterostructure analysis**

**Sahakyan, Armen; Koel, Ants; Rang, Toomas** Materials and contact characterisation VIII 2017 / p. 49-60 : ill  
<https://doi.org/10.2495/MC170061> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Noninvasive acquisition of the aortic blood pressure waveform**

**Min, Mart; Kõiv, Hip; Priidel, Eiko; Pesti, Ksenija; Annus, Paul** Wearable devices 2019 / 16 p. : ill  
<https://doi.org/10.5772/intechopen.86065>

#### **Noninvasive measuring of breathing and pulse of a human by the means of electrical bioimpedance**

**Metshein, Margus** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 75-78 : ill

#### **Non-invasive method for the aortic blood pressure waveform estimation using the measured radial EBI**

**Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XMth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 121 : ill <https://doi.org/10.1088/1742-6596/434/1/012048> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Non-Line of Sight detection based on 5G signal strength- and quality measurements and its impact on mobile positioning accuracy**

**Müürsepp, Ivo; Fjodorov, Aleksei; Alam, Muhammad Mahtab** 2024 International Wireless Communications and Mobile Computing (IWCMC) 2024 / p. 256-261 <https://doi.org/10.1109/IWCMC61514.2024.10592586>

#### **Non-standard electrode placement strategies for ECG signal acquisition**

**Metshein, Margus; Krivošei, Andrei; Abdullayev, Anar; Annus, Paul; Märten, Olev** Sensors 2022 / art. 9351  
<https://doi.org/10.3390/s22239351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Notes on applicability of the impedance spectroscopy for characterization of materials and substances**

**Annus, Paul; Land, Raul; Min, Mart; Reidla, Marko; Rist, Marek** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1052-1057 : ill <https://doi.org/10.1109/I2MTC.2016.7520513> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Notes on signals for simultaneous multipoint impedance spectroscopy**

**Priidel, Eiko; Min, Mart; Annus, Paul** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 6-7 : ill

#### **Novel active-passive two-way ranging protocols for UWB positioning systems**

**Laadung, Taavi; Ulp, Sander; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE sensors journal 2022 / p. 5223-5237 : ill  
<https://doi.org/10.1109/JSEN.2021.3125570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Novel data dependent divider circuit block implementation for complex division and area critical applications**

**Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants** Scientific reports 2023 / art. 3027, 28 p. : ill <https://doi.org/10.1038/s41598-023-28343-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A novel high-speed camera system for capturing microfluidic droplets**

**Rütter, Veiko; Pärnamets, Kaiser; Pardy, Tamas; Koel, Ants; Scheler, Ott; Rang, Toomas** 2025 Smart Systems Integration

**A novel multi-hop body-to-body routing protocol for disaster and emergency networks**

Ben Arbia, Dhafer; **Alam, Muhammad Mahtab**; Attia, Rabah; Ben Hamida, Elyes 2016 International Conference on Wireless Networks and Mobile Communications (WINCOM'2016) : October 26-29, 2016 Fez, Morocco 2016 / p. 1-7 : ill  
<https://doi.org/10.1109/WINCOM.2016.7777222>

**Novel real-time in-step gait anomaly detection algorithms**

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Le Moullec, Yannick; **Alam, Muhammad Mahtab** techrxiv.org 2024  
<https://doi.org/10.36227/techrxiv.171173236.66440239/v1>

**Numerical analysis of the influence of deep energy level traps in SiC Schottky structures**

Koel, Ants; Rang, Toomas; Rang, Galina High performance structure and materials. VI 2012 / p. 439-448 : ill

**Numerical aspects of the development of quantum cascade laser simulation software**

Reeder, Reeno; Udal, Andres; Velme, Enn; Valavanis, Alexander BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 37-40 : ill

**Numerical simulation of P-type Al/4H-SiC Schottky barrier diodes [Online resource]**

Ziko, Mehadi Hasan; 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.2018.8600976>

**Numerical simulations of wideband SiC N-N heterostructure diode**

Patankar, Udayan Sunil; Koel, Ants; Pardy, Tamas LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073489>

**Observations concerning the results of capacitive monitoring of breathing and heart rate by the means of electrical bioimpedance**

Metshein, Margus The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**On coverage of critical nodes in UAV-assisted emergency networks**

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

**On research challenges in hybrid medium-access control protocols for IEEE 802.15.6 WBANs**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan Khalid; Le Moullec, Yannick; **Alam, Muhammad Mahtab** IEEE Sensors Journal 2019 / p. 8543 - 8555 <https://doi.org/10.1109/JSEN.2018.2883786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On the possibility of detecting the electrical bioimpedance of human body by using non-contact electrodes in capacitive connection**

Metshein, Margus; Gordon, Rauno BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 171-174 : ill  
[http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**On the selection of excitation signals for the fast spectroscopy of electrical bioimpedance**

Ojarand, Jaan; Min, Mart Journal of electrical bioimpedance 2018 / p. 133-141 : ill <https://doi.org/10.2478/joeb-2018-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

**On-demand ultra-dense cloud drone networks : opportunities, challenges and benefits**

Sharma, Navuday; Magarini, Maurizio; Jayakody, Dushantha Nalin K. IEEE Communications Magazine 2018 / p. 85-91 : ill  
<http://dx.doi.org/10.1109/MCOM.2018.1701001>

**On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood**

Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märtens, Olev Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Open source hardware cost-effective imaging sensors for high-throughput droplet microfluidic systems**

Pärnamets, Kaiser; Koel, Ants; Pardy, Tamas; Rang, Toomas Proceedings of 26th International Conference : ELECTRONICS 2022 2022 / 6 p <https://doi.org/10.1109/IEEECONF55059.2022.9810383>

**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

**Optical detection methods for droplet microfluidic applications = Optilised tuvastusmeetodid tilkade mikrofluidiliste rakenduste jaoks**

**Pärnamets, Kaiser** 2023 <https://doi.org/10.23658/taltech.31/2023> <https://digikogu.taltech.ee/et/Item/ffb85150-fb85-4a7c-b130-0d7f2c3b7fb5>  
[https://www.eester.ee/record=b5569973\\*est](https://www.eester.ee/record=b5569973*est)

**Optical detection methods for high-throughput fluorescent droplet microflow cytometry**

**Pärnamets, Kaiser; Pardy, Tamas; Koel, Ants; Rang, Toomas; Scheler, Ott; Le Moullec, Yannick; Afrin, Fariha**

Micromachines 2021 / art. 345, 20 p. : ill <https://doi.org/10.3390/mi12030345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical dynamics of copper-doped cadmium sulfide (CdS) and zinc sulfide (ZnS) quantum-dots core/shell nanocrystals**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas; Nasir, Nadeem; Sabir, Nadeem; Ameen, Faheem; Rasheed, Abher**

Nanomaterials 2022 / art. 2277 <https://doi.org/10.3390/nano12132277> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical spectrum as a service in multi-operator environments: challenges and enabling technologies for transparent optical overlay networks**

**Kaeval, Kaida; Grobe, Klaus; Elbers, Jörg-Peter** Optical Fiber Communications Conference and Exhibition, OFC 2024 :

proceedings 2024 / art. Th1G.3 <https://doi.org/10.1364/OFC.2024.Th1G.3>

**Optimal sliding window selection in non-overlapping backoff algorithm for IEEE 802.15.6 WBAN**

**Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; Alam, Muhammad Mahtab; Radwan, Ayman** IEEE communications letters 2024 / p. 1467-1471 <https://doi.org/10.1109/LCOMM.2024.3384755> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimisation of multisine waveform for bio-impedance spectroscopy**

**Ojarand, Jaan; Annus, Paul; Min, Mart** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 79 : ill

<https://doi.org/10.1088/1742-6596/434/1/012030> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Optimising full waveform inversion with inhomogeneous transducers: Parameters and considerations for successful implementation**

**Rasgado Moreno, Carlos Omar; Xu, Panpan; Rist, Marek; Ratassepp, Madis** NDT & E International

2025 / art. 103265 <https://doi.org/10.1016/j.ndteint.2024.103265>

**Optimization of channel allocation in wireless body area networks by means of reinforcement learning**

**Ahmed, Tauseef; Ahmed, Faisal; Le Moullec, Yannick** APWiMob : IEEE Asia Pacific Conference on Wireless and Mobile 2016 :

conference proceedings : 13-15 September 2016, Grand Royal Panghegar Hotel, Bandung, Indonesia 2016 / p. 120-123 : ill  
<https://doi.org/10.1109/APWiMob.2016.7811445>

**Optimization of multisine excitation for a bioimpedance measurement device**

**Ojarand, Jaan; Annus, Paul; Min, Mart; Gorev, Maksim; Ellervee, Peeter** I2MTC 2014 IEEE International Instrumentation and

Measurement Technology Conference : Instrumentation and Measurement for Sustainable Development : Radisson Montevideo

Victoria Plaza Hotel & Conference Center, May 12-15, 2014, Montevideo, Uruguay : proceedings 2014 / p. 829-832 : ill

<https://doi.org/10.1109/I2MTC.2014.6860859> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Optimizing the deployment of multi-UAVs in emergency response networks**

**Hassan, Ali; Javed, Sadaf; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan; Alam, Muhammad Mahtab** 2024 19th Biennial Baltic

Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737973> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

[Article at WOS](#)

**Optimum electromagnetic modelling of RF MEMS switches**

**Ziko, Mehadi Hasan; Koel, Ants** Elektronika ir elektrotehnika = Electronics and electrical engineering 2018 / p. 46-50 : ill

<https://doi.org/10.5755/j01.eie.24.5.21842> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Our Journal is entering into its second decade**

**Min, Mart** Journal of electrical bioimpedance 2019 / p. 1 <https://doi.org/10.2478/joeb-2019-0001> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Article at WOS](#)

**An overview of the impedance models of the thorax and the origin of the impedance cardiography signal for modelling of the impedance signals**

**Mughal, Yar M.; Annus, Paul; Min, Mart; Gordon, Rauno** 2014 IEEE International Conference on Biomedical Engineering and

Sciences : 8th-10th December 2014, Miri-Malaysia : conference proceedings 2014 / p. 526-531 : ill

### **Pacing algorithm test environment for simulating critical bleeding situations**

**Kink, Andres** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [3] p. : ill

### **Parameter estimation by sparse reconstruction with wideband dictionaries = Signaali parameetrite hindamine kasutades hajusat taastamist laiaribaliste sõnastikega**

**Butsenko, Maksim** 2018 <https://digi.lib.ttu.ee/ii/?11199> [https://www.ester.ee/record=b5176162\\*est](https://www.ester.ee/record=b5176162*est)

### **A parametric framework for modelling of bioelectrical signals**

**Muhammad, Yar** 2016 <http://dx.doi.org/10.1007/978-981-287-969-1>

### **A parametric framework for modelling of bioelectrical signals = Parameetiline raamistik bioelektriliste signaalide modelleerimiseks**

**Muhammad, Yar** 2015 [http://www.ester.ee/record=b4473232\\*est](http://www.ester.ee/record=b4473232*est)

### **A parametric framework for the development of bioelectrical applications : application to a bio-impedance signal simulator**

**Muhammad, Yar; Annus, Paul; Le Moullec, Yannick; Rang, Toomas** Proceedings of the Estonian Academy of Sciences 2016 / p. 345-357 : ill <https://doi.org/10.3176/proc.2016.4.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Performance analysis of interference and priority aware coexistence in IEEE 802.15.6 based WBANs**

**Khan, Fawad Nawaz; Ahmad, Rizwan; Ahmed, Waqas; Alam, Muhammad Mahtab; Drieber, Micheal** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 5 p <https://doi.org/10.1109/BEC49624.2020.9277066>

### **Performance comparison of smartphones and a wearable motion sensor for patient m-assessment [Online resource]**

**Kask, Triin; Kuusik, Alar** 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.2018.8600973>

### **Performance evaluation of 5G NR sidelink for V2X scenarios**

**Elgarhy, Osama Mohamed Mostafa; Yener, Onur; Alam, Muhammad Mahtab** 2022 18th Biennial Baltic Electronics Conference (BEC) : proceedings 2022 / 5 p <https://doi.org/10.1109/BEC56180.2022.9935591>

### **Performance evaluation of 5G-NR positioning accuracy using time difference of arrival method**

**Müürsepp, Ivo; Kulmar, Marika; Elgarhy, Osama Mohamed Mostafa; Alam, Muhammad Mahtab; Chen, Tao; Horsmanheimo, Seppo; Scholliers, Johan** 2021 IEEE International Mediterranean Conference on Communications and Networking (MeditCom) : Athens, Greece, 7-10 Sept. 2021 2021 / p. 494-499 : ill <https://doi.org/10.1109/MeditCom49071.2021.9647652>

### **Performance evaluation of distance-based random mean shift clustering and humpback whale optimization algorithm for sink node placement in WBAN**

**Hanif, Maria; Ahmad, Rizwan; Ahmed, Waqas; Drieberg, Micheal; Alam, Muhammad Mahtab** BODYNETS 2021: Body Area Networks. Smart IoT and Big Data for Intelligent Health Management : 18th EAI International Conference, BODYNETS 2024-A, Milan, Italy, February 5-6, 2024, Proceedings 2024 / p. 225 - 245 [https://doi.org/10.1007/978-3-031-72524-1\\_17](https://doi.org/10.1007/978-3-031-72524-1_17) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Performance evaluation of UWB active-passive two-way ranging distance estimation matrix weighting methods**

**Laadung, Taavi; Ulp, Sander; Alam, Muhammad Mahtab; Le Moullec, Yannick** WiP Proceedings of the Twelfth International Conference on Indoor Positioning and Indoor Navigation 2022 / p. paper29 <https://ceur-ws.org/Vol-3248/paper29.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Phase-increment sampling in chirp signal based impedance measurements**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** Sampling Theory and Applications 2017 : 12th International Conference : Tallinn, Estonia, July 3-7 : program and abstracts 2017 / p. 65

### **Phase-increment sampling in chirp signal based impedance measurements [Electronic resource]**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [abstracts] 2017 / p. 66. [USB]

### **Phase-increment sampling in chirp signal based impedance measurements [Online resource]**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [proceedings] 2017 / p. 604-608 : ill <https://doi.org/10.1109/SAMPTA.2017.8024393>

### **Phase-sensitive amplifier link with distributed Raman amplification**

**Eliasson, Henrik; Vijayan, Kovendhan; Foo, Benjamin; Olsson, Samuel L. I.; Astra, Egon; Karlsson, Magnus; Andrekson, Peter Avo** Optics express 2018 / p. 19854-19863 <https://doi.org/10.1364/OE.26.019854> [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>

**Photoplethysmography as an alternative to impedance cardiography-based hemodynamic feature point detection**

**Metshein, Margus; Annus, Paul; Abdullayev, Anar; Krivošei, Andrei; Land, Raul; Märten, Olev** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p <https://doi.org/10.1109/BEC61458.2024.10737936> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**PID controller tuning optimization using genetic algorithm for droplet size control in microfluidics**

**Gyimah, Nafisat; Jõemaa, Rauno; Pärnamets, Kaiser; Scheler, Ott; Rang, Toomas; Pardy, Tamas** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p <https://doi.org/10.1109/BEC56180.2022.9935596>

**PLL-based extraction of the cardiac component from the bio-impedance signal**

**Märten, Olev; Min, Mart; Annus, Paul; Land, Raul; Krivošei, Andrei; Metshein, Margus** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409848>

**Polymer nanofiber deposition in lab-on-a-chip devices by electrospinning**

**Pardy, Tamas; Jõemaa, Rauno; Ender, Ferenc; Rang, Toomas; Hegedus, Kristof; Balogh-Weiser, Diana** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277494>

**Polytypic heterojunctions for wide bandgap semiconductor materials**

**Shenkin, Mikhail; Korolkov, Oleg; Rang, Toomas; Rang, Galina** Materials characterization VII 2015 / p. 273-282 : ill

**Pooljuhtstruktuuride tööpõhimõtted. Struktuuride realiseerimised kristallis : abimaterjal ainele "Mikroelektronika"**

2003 [http://www.ester.ee/record=b1782563\\*est](http://www.ester.ee/record=b1782563*est)

**Possible health effects on the human brain by various generations of mobile telecommunication: a review based estimation of 5G impact**

**Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie** International Journal of Radiation Biology 2022 / p. 1210-1221 <https://doi.org/10.1080/09553002.2022.2026516> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Power aware ON/OFF switching schemes for energy efficient phantom cellular networks**

**Anjum, M Naveed; Ahmad, Rizwan; Hassan, Ali; Ahmed, Waqas; Alam, Muhammad Mahtab** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p <https://doi.org/10.1109/BEC56180.2022.9935605>

**Power optimization in a non-coordinated secondary infrastructure in a heterogeneous cognitive radio network**

**Ahmed, Tauseef; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 79-83 : ill <https://doi.org/10.5755/j01.eee.21.3.10526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Power Stage MOSFETs Segmentation in Ripple Controlled Step-Down SMPS [Online resource]**

**Mihhailov, Juri; Koort, Marko; 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.2018.8600960>

**Power-efficient frequency allocation algorithms for self-organized networks**

**Ahmed, Tauseef; Le Moullec, Yannick** 2015 Advances in Wireless and Optical Communications RTUWO : 5-6 November 2015, Riga, Latvia : proceedings 2015 / p. 142-145 : ill <http://dx.doi.org/10.1109/RTUWO.2015.7365738>

**PPG and bioimpedance-based wearable applications in heart rate monitoring – a comprehensive review**

**Lapsa, Didzis; Janeliukstis, Rims; Metshein, Margus; Selavo, Leo** Applied sciences 2024 / art. 7451 <https://doi.org/10.3390/app14177451> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Precise eddy current measurements : improving accuracy of determining of electrical conductivity of metal plates**

**Märten, Olev; Land, Raul; Gordon, Rauno; Min, Mart; Rist, Marek; Pokatilov, Andrei** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 109-115 : ill

**Preface**

**Alam, Muhammad Mahtab; Hämäläinen, Matti; Mucchi, Lorenzo; Niazi, Imran Khan; Le Moullec, Yannick** Body Area Networks. Smart IoT and Big Data for Intelligent Health : 15th EAI International Conference, BODYNETS 2020, Tallinn, Estonia, October 21, 2020 : proceedings 2020 / p. V <https://link.springer.com/content/pdf/bfm:978-3-030-64991-3/1?pdf=chapter%20toc> <https://doi.org/10.1007/978-3-030-64991-3> [Conference proceeding](#) [Article at Scopus](#)

## **Preface**

**Rang, Toomas** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. III-IV : phot  
[http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

## **Preface**

**Rang, Toomas** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. [III-IV] : phot  
[https://www.ester.ee/record=b2150914\\*est](https://www.ester.ee/record=b2150914*est)

## **A preliminary computer-aided technique for CT based lung segmentation**

**Gupta, Anindya; Märtens, Olev; Le Moullec, Yannick** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 43-46 : ill

## **A primer on public safety communication in the context of terror attacks: the NATO SPS “COUNTER-TERROR” project**

**Alam, Muhammad Mahtab; Le Moullec, Yannick; Ahmad, Rizwan; Magarini, Maurizio; Reggiani, Luca** Advanced Technologies for Security Applications : Proceedings of the NATO Science for Peace and Security 'Cluster Workshop on Advanced Technologies', 17-18 September 2019, Leuven, Belgium 2020 / p. 19-34 [https://doi.org/10.1007/978-94-024-2021-0\\_3](https://doi.org/10.1007/978-94-024-2021-0_3) [Article collection metrics at Scopus](#) [Article at Scopus](#)

## **Principles for the design of impedance spectroscopy devices for identification of dynamic bio-systems = Dünaamiliste biosüsteemide impedantsspektroskoopia seadmete disaini printsiibid**

**Rist, Marek** 2018 <https://digi.lib.ttu.ee/i/?9260> [https://www.ester.ee/record=b4759867\\*est](https://www.ester.ee/record=b4759867*est)

## **Process development for 3D laser lithography**

**Kaste, N.; Filbert, A.; Mescheder, U.; Rang, Toomas; Rang, Galina** High performance and optimum design of structures and materials 2014 / p. 139-150 : ill <https://doi.org/10.2495/HPSM140131> [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **Prof Mart Min : tehnoloogia teeb tervemaks ja rikkamaks**

**Min, Mart** Director. Inseneeria 2019 / lk. 18-24 : fot [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est)

## **ProSe direct discovery : experimental characterization and context-aware heuristic approach to extend public safety networks lifetime**

**Masood, Ali; Alam, Muhammad Mahtab; Le Moullec, Yannick; Reggiani, Luca; Scazzoli, Davide; Magarini, Maurizio; Ahmad, Rizwan** IEEE Access 2021 / p. 130055 –130071 <https://doi.org/10.1109/ACCESS.2021.3112751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Prototyping of a machine learning based auxiliary neurostimulation system**

**Grigorjev, Nikolai; Le Moullec, Yannick; Kuusik, Alar** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l.  
<https://doi.org/10.1109/BEC56180.2022.9935607>

## **Pulsed laser deposition of Zn(O,Se) layers in nitrogen background pressure**

**Abdalla, Akram; Bereznev, Sergei; Spalatu, Nicolae; Volobujeva, Olga; Sleptšuk, Natalja; Danilson, Mati** Scientific reports 2019 / art. 17443, 10 p. : ill <https://doi.org/10.1038/s41598-019-54008-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Pöörisvool tuvastab völtsmündid ja liigutab hõljukronge**

**Vill, Ants** Director. Inseneeria 2021 / lk. 74-80 : fot [https://www.ester.ee/record=b1519314\\*est](https://www.ester.ee/record=b1519314*est) <https://director.ee/2021/09/01/poorisvool-tuvastab-voltsmundid-ja-liigutab-holjukronge/>

## **Q-Learning based joint energy-spectral efficiency optimization in multi-hop device-to-device communication**

**Khan, Muhidul Islam; Reggiani, Luca; Alam, Muhammad Mahtab; Le Moullec, Yannick; Sharma, Navuday; Yaacoub, Elias; Magarini, Maurizio** Sensors 2020 / art. 6692, 23 p.: ill <https://doi.org/10.3390/s20226692> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **A QoS optimization approach in cognitive body area networks for healthcare applications**

**Ahmed, Tauseef; Le Moullec, Yannick** Sensors 2017 / art. 780, p. 1-23 : ill <https://doi.org/10.3390/s17040780> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **QUADRA impedance spectroscopy devices for dynamic measurements of bio-objects**

**Rist, Marek; Reidla, Marko; Märtens, Olev; Min, Mart; Annus, Paul; Land, Raul; Parve, Toomas** 34th Annual International IEEE EMBS Conference : August 28 - September 1, 2012, Hilton Bayfront Hotel in San Diego, California, USA : abstracts 2012 / p. 557 : ill

## **Quantization of the response signal differences for the electrical bioimpedance measurement**

**Annus, Paul; Land, Raul; Priidel, Eiko; Metshein, Margus; Min, Mart; Märtens, Olev** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 290-293 : ill <https://doi.org/10.1007/978-981-10-5122->

**Radio access network subslicing in closed control loop for improved slice performance management =**

**Raadiojuurdepääsu võrguviilu alamviilutamine suletud juhtimisahelas**

**Kulmar, Marika** 2024 <https://doi.org/10.23658/taltech.2/2024> <https://digikogu.taltech.ee/et/Item/38b22df5-0884-4c20-941e-2562491879e5>  
[https://www.ester.ee/record=b5649442\\*est](https://www.ester.ee/record=b5649442*est)

**Radio resource management in NB-IoT systems : empowered by interference prediction and flexible duplexing**

**Malik, Hassan; Alam, Muhammad Mahtab; Pervaiz, Haris; Le Moullec, Yannick; Al-Dulaimi, Anwer; Päränd, Sven; Reggiani, Luca** IEEE Network 2020 / Art. nr. 8839971 <https://doi.org/10.1109/MNET.001.1900087> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**Radio resource management scheme in NB-IoT systems**

**Malik, Hassan; Pervaiz, Haris; Alam, Muhammad Mahtab; Le Moullec, Yannick; Kuusik, Alar; Imran, Muhammad Ali** IEEE Access 2018 / p. 15051-15064 : ill <https://doi.org/10.1109/ACCESS.2018.2812299> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Radio spectrum and power optimization cognitive techniques for wireless body area networks = Raadiospektri ja võimsuse optimeerimise kognitiivsed tehnikad traadita kehavõrkudele**

**Ahmed, Tauseef** 2017 <https://digi.lib.ttu.ee/i/?7677> [https://www.ester.ee/record=b4677631\\*est](https://www.ester.ee/record=b4677631*est)

**Rahastagem vaid erialasid, mida tööturg vajab. Ülejäänud on hobid**

**Müürsepp, Ivo** Eesti Päevaleht 2022 [Rahastagem vaid erialasid, mida tööturg vajab. Ülejäänud on hobid](#)

**Rahvusvaheline elektrotehnika sõnastik. Osa 702, Võnkumised, signaalid ja vastavad seadmed [Võrguteavik] =**

**International Electrotechnical Vocabulary. Chapter 702, Oscillations, signals and related devices (IEC 60050-702:1992+IEC 60050-702:1992/Amd 1:2016+IEC 60050-702:1992/Amd 2:2016+IEC 60050-702:1992/Amd 3:2017+IEC 60050-702:1992/Amd 4:2018, identical+IEC 60050-702:1992/Amd 5:2019, identical)**

2020 [https://www.ester.ee/record=b5375585\\*est](https://www.ester.ee/record=b5375585*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 702, Võnkumised, signaalid ja vastavad seadmed [Võrguteavik] =**

**International Electrotechnical Vocabulary. Chapter 702, Oscillations, signals and related devices (IEC 60050-702:1992+IEC 60050-702:1992/Amd 1:2016+IEC 60050-702:1992/Amd 2:2016+IEC 60050-702:1992/Amd 3:2017)**

2018 [https://www.ester.ee/record=b5143859\\*est](https://www.ester.ee/record=b5143859*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 713, Raadioside: saatjad, vastuvõtjad, võrgud ja ekspluatatsioon**

**[Võrguteavik] = International Electrotechnical Vocabulary. Chapter 713, Radiocommunication: transmitters, receivers, networks and operation (IEC 60050-713:1998+IEC 60050-713:1998/Amd 1:2016+IEC 60050-713:1998/Amd 2:2017)**

2017 [http://www.ester.ee/record=b4759595\\*est](http://www.ester.ee/record=b4759595*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 713, Raadioside: saatjad, vastuvõtjad, võrgud ja ekspluatatsioon**

**[Võrguteavik] = International Electrotechnical Vocabulary. Chapter 713, Radiocommunication: transmitters, receivers, networks and operation (IEC 60050-713:1998+IEC 60050-713:1998/Amd 1:2016+IEC 60050-713:1998/Amd 2:2017+IEC 60050-713:1998/Amd 3:2018, identical+IEC 60050-713:1998/Amd 4:2019, identical)**

2020 [https://www.ester.ee/record=b5375620\\*est](https://www.ester.ee/record=b5375620*est)

**Rahvusvaheline Seebecki foorum Tallinnas : [20.-24. mail 2013]**

**Rang, Toomas** Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 303-304

**Rate-latency optimization for NB-IoT with adaptive resource unit configuration in uplink transmission**

**Elgarhy, Osama Mohamed Mostafa; Reggiani, Luca; Malik, Hassan; Alam, Muhammad Mahtab; Imran, Muhammad Ali** IEEE Systems Journal 2021 / p. 265 - 276 <https://doi.org/10.1109/JSYST.2020.2991073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Realization and evaluation of the device for measuring the impedance of human body for detecting the respiratory and heart rate**

**Metshein, Margus; Parve, Toomas; Annus, Paul; Rist, Marek; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 36-42 : ill <https://doi.org/10.5755/j01.eie.23.3.18330> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Real-time gait anomaly detection using 1D-CNN and LSTM**

**Rostovski, Jakob; Ahmadilivani, Mohammad Hasan; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab** Digital Health and Wireless Solutions : First Nordic Conference, NCDHWS 2024, Oulu, Finland, May 7–8, 2024 : Proceedings, Part II 2024 / p. 260-278 [https://doi.org/10.1007/978-3-031-59091-7\\_17](https://doi.org/10.1007/978-3-031-59091-7_17) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**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>

**Recent advances in crest factor minimization of multisine**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 59-62 : ill <https://doi.org/10.5755/j01.eie.23.2.18001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Regression based model of the impedance cardiac and respiratory signals for the development of a bio-impedance signal simulator**

**Mughal, Yar M; Annus, Paul** Doctoral School in Information and Communication Technology : proceedings of doctoral session of BEC 2014 : October 6-8 2014, Laulasmaa 2014 / p. 15-18 : ill

**A reinforcement learning routing protocol for UAV aided public safety networks**

Minhas, Hassan Ishtiaq; Ahmad, Rizwan; Ahmed, Waqas; Waheed, Maham; **Alam, Muhammad Mahtab**; Gul, Sufi Tabassum Sensors 2021 / Art. nr. 4121 <https://doi.org/10.3390/s21124121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Relative complex permittivity and its dependence on frequency**

**Giannoukos, Georgios; Min, Mart; Rang, Toomas** World journal of engineering 2017 / p. 532-537 : ill <https://doi.org/10.1108/WJE-01-2017-0007> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Reliability-critical computation offloading in UAV swarms**

**Rahbari, Dadmehr; Ahmed, Foisal; Jenihhin, Maksim; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Systems Journal 2024 / p. 1871-1882 <https://doi.org/10.1109/JSYST.2024.3432449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Reliable smart electrical power supply for cubesat platforms**

**Pooler, V.; Priidel, Eiko; Sinivee, Veljo** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 215-218 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

**Research and implementation of electrical bioimpedance measurement solutions = Elektrilise bioimpedantsi mõõtmise lahenduste uurimine ja teostus**

**Abdullayev, Anar** 2025 [https://www.ester.ee/record=b5761789\\*est](https://www.ester.ee/record=b5761789*est) <https://digikogu.taltech.ee/et/Item/226117d6-34fd-4039-8abb-fad105fca61c> <https://doi.org/10.23658/taltech.70/2025>

**Retangular-wave chirps for broadband measurement : spectra and energy**

**Paavle, Toivo; Min, Mart** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 195-198 : ill

**Reward function evaluation in a reinforcement learning approach for energy management [Online resource]**

Rioual, Yohann; **Le Moullec, Yannick**; Laurent, Johann; **Khan, Muhidul Islam**; Diguët, Jean-Philippe BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2019 / 4 p <https://doi.org/10.1109/BEC.2018.8600992>

**Review of - SiC wide-bandgap heterostructure properties as an alternate semiconductor material**

**Patankar, Udayan Sunil**; Rajput Priti, J.; **Koel, Ants**; Nitnaware, V.N. International Conference on Inventive Research in Material Science and Technology, ICIRMCT 2018 : March 23-24, 2018 2018 / art. 020011 <https://doi.org/10.1063/1.5038690> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Review of basic classes of dividers based on division algorithm**

**Patankar, Udayan Sunil; Koel, Ants** IEEE Access 2021 / p. 23035-23069 <https://doi.org/10.1109/ACCESS.2021.3055735> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ring-oscillator with multiple transconductors for linear analog-to-digital conversion**

Alvero-Gonzalez, Leidy Mabel; Medina, Victor; **Kampus, Vahur**; Paton, Susana; Hernandez, Luis; Gutierrez, Eric Electronics (Switzerland) 2021 / art. 1408 <https://doi.org/10.3390/electronics10121408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Robust algorithm for the augmentation index estimation of the CAP using low order derivatives [Electronic resource]**

**Krivošei, Andrei; Min, Mart; Lamp, Jürgen; Annus, Paul** MeMeA 2014 : IEEE International Symposium on Medical Measurements and Applications : June 11-12, 2014, ISCTE, University of Lisbon, Lisbon, Portugal : proceedings 2014 / p. 279-282 : ill. [CD-ROM]

**Saaremaa mees sai TalTechi aasta teadlaseks**

saartehaal.postimees.ee 2024 [Saaremaa mees sai TalTechi aasta teadlaseks](#)

### **Satelliidiprogrammi juhti kõidab töö ühise eesmärgi nimel**

**Gordon, Rauno** Mente et Manu 2017 / lk. 32-34 : fot [https://www.ttu.ee/public/m/mente-et-manu/MM\\_02\\_2017/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_02_2017/index.html)  
[https://artiklid.elnet.ee/record=b2816034\\*est](https://artiklid.elnet.ee/record=b2816034*est)

### **Saving time and cost on the scheduling of fog-based IoT applications using deep reinforcement learning approach**

**Gazori, Pegah; Rahbari, Dadmehr;** Nickray, Mohsen Future generation computer systems 2020 / p. 1098-1115  
<https://doi.org/10.1016/j.future.2019.09.060>

### **Scheduling in radio resource management for massive machine-type communications = Raadioressursside planeerimine massiivse masin-masin tüüpi kommunikatsiooni korral**

**Mwakwata, Collins Burton** 2022 <https://doi.org/10.23658/taltech.32/2022> <https://digikogu.taltech.ee/et/Item/e62dd1a5-5791-487b-b5f6-0d983f37a7d5> [https://www.ester.ee/record=b5502362\\*est](https://www.ester.ee/record=b5502362*est)

### **Sec-IoT: A framework for secured decentralised IoT using blockchain-based technology**

**Khan, Muhidul Islam;** Lawal, Isah A. Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, Vol. 1 2020 / p. 269-277 [https://doi.org/10.1007/978-981-15-5856-6\\_27](https://doi.org/10.1007/978-981-15-5856-6_27) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **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)

### **Self-calibration of multiscale hysteresis with memristors in nonlinear time reversal based processes**

**Dos Santos, Serge; Masood, Ali;** Furui, Sadataka; Nardoni, Giuseppe BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / p. 9-12 : ill <https://doi.org/10.1109/BEC.2018.8600977>

### **Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications**

**Metshein, Margus; Abdullayev, Anar;** Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; **Annus, Paul; Land, Raul; Märten, Olev** Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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-estti-voimalus/>

### **Separation of cardiac and respiratory components from the electrical bio-impedance signal using PCA and fast ICA**

**Mughal, Yar M.; Krivošei, Andrei; Annus, Paul** International Conference on Control Engineering & Information Technology (CEIT'13), Sousse, Tunisia, June 04-07, 2013 : [proceedings] 2013 / [4] p

### **Service placement and migration algorithm utilizing precise positioning for connected and automated vehicles**

**Elgarhy, Osama Mohamed Mostafa; Alam, Muhammad Mahtab;** Reggiani, Luca; Azeem, Muhammad Moazam 2023 IEEE Conference on Standards for Communications and Networking (CSCN) 2023 / p. 183-188  
<https://doi.org/10.1109/CSCN60443.2023.10453210>

### **SEU study of wideband heterostructure diode for particle detection**

**Patankar, Udayan Sunil; Koel, Ants** 2021 IEEE International Conference on Consumer Electronics (ICCE) 2021 / 4 p. : ill <https://doi.org/10.1109/ICCE50685.2021.9427613> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **SiC JBS diode symmetrical voltage doubler represented as the diffusion-welded stack**

**Korolkov, Oleg; Land, Raul; Toompuu, Jana; Sleptšuk, Natalja; Rang, Toomas** Silicon carbide and related materials 2017 : ICSCRM 2017 : selected, peer reviewed papers from the 2017 International Conference on Silicon Carbide and related materials, September 17-22, 2017, Washington, DC, USA 2018 / p. 862–865 : ill <https://doi.org/10.4028/www.scientific.net/MSF.924.862> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **SIC schottky diode rectifier bridge represented as the diffusion-welded stack**

**Korolkov, Oleg;** Kozlovski, Vitali V.; Lebedev, Alexander A.; **Land, Raul; Sleptšuk, Natalja; Toompuu, Jana; Rang, Toomas** Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 697-700 : ill <https://doi.org/10.4028/www.scientific.net/MSF.897.697> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **SIC schottky diode rectifier bridge represented as the diffusion-welded stack**

**Korolkov, Oleg; Land, Raul; Sleptšuk, Natalja; Toompuu, Jana; Rang, Toomas** 11th European Conference on Silicon Carbide and Related Materials : September 25-29, 2016, Porto Carras Grand Resort, Halkidiki, Greece : [poster session] 2016 / p. 42

### **Signal acquisition and algorithm design for bioimpedance-based heart rate estimation from the wrist**

Lapsa, Didzis; **Metshein, Margus; Krivošei, Andrei**; Janeliukstis, Rims; **Märtens, Olev**; Elsts, Artis Applied sciences 2024 / art. 9632 <https://doi.org/10.3390/app14219632> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Simple acoustical signature based coin validation**

**Märtens, Olev; Gavrijaševa, Alina; Land, Raul; Min, Mart** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 120-123 : ill

#### **Simple and efficient excitation signals for fast impedance spectroscopy**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 49-52 : ill  
<https://doi.org/10.5755/j01.eee.19.2.3468> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Simplified signal processing for impedance spectroscopy with spectrally sparse sequences**

**Annus, Paul; Land, Raul; Reidla, Marko**; Ojarand, Jaan; **Mughal, Yar M.; Min, Mart** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 76 <https://doi.org/10.1088/1742-6596/434/1/012031> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Simulation of the sensitivity distribution of four-electrode impedance sensing on radial artery**

**Pesti, Ksenija; Kõiv, Hip; Min, Mart** 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/SAS.2019.8705976>

#### **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](#)

#### **Simulations of graphene nanoribbon field effect transistor for the detection of propane and butane gases : a first principles study**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Nanomaterials 2020 / art. 98 <https://doi.org/10.3390/nano10010098>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Simulations of heterostructures based on 3C-4H and 6H-4H silicon carbide polytypes**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Silicon carbide and related materials 2017 : ICSCRM 2017 : selected, peer reviewed papers from the 2017 International Conference on Silicon Carbide and related materials, September 17-22, 2017, Washington, DC, USA 2018 / p. 302-305 : ill <https://doi.org/10.4028/www.scientific.net/MSF.924.302> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Simulations of propane and butane gas sensor based on pristine armchair graphene nanoribbon**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** IOP conference series : materials science and engineering 2018 / art. 012001, 8 p <https://doi.org/10.1088/1757-899X/362/1/012001> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Simulations of wide bandgap SiC N-N heterostructure diode**

**Patankar, Udayan Sunil; Koel, Ants; Pardy, Tamas** 2020 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA, January 4-6, 2020 2020 / 4 p <https://doi.org/10.1109/ICCE46568.2020.9043130>

#### **Situational awareness based neural flight control of a coaxial rotor/ducted-fan helicopter**

**Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein** Recent advances in systems science : proceedings of the 17th International Conference on Systems (part of CSCC '13) : Rhodes Island, Greece, July 16-19, 2013 2013 / p. 54-59 : ill

#### **Slope-based event-driven feature extraction for cardiac arrhythmia classification**

Duforest, Julien; Larras, Benoit; John, Deepu; **Märtens, Olev**; Frappe, Antoine 2021 IEEE Biomedical Circuits and Systems Conference 2021 / 4 l <https://doi.org/10.1109/BioCAS49922.2021.9644957>

#### **A smart capless voltage regulator for very high bandwidth A/D and D/A converters in a standard 28nm CMOS process**

**Kampus, Vahur; Rang, Toomas** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 43-46 : ill  
[http://www.estee.ee/record=b2150914\\*est](http://www.estee.ee/record=b2150914*est)

#### **Smart chair : IoT based health telemetry for air traffic controllers and emergency response center operators**

Yusupov, Nodirkhon; Akhinko, Sergii; Sambath Kumar, Rohin; **Khan, Rida** Proceedings of the 29th International DAAAM Symposium "Intelligent Manufacturing & Automation" : 24-27th October 2018, Zadar, Croatia 2018  
<http://dx.doi.org/10.2507/29th.daaam.proceedings.184>

#### **Smart, wireless modular communication platform**

**Ruberg, Priit; Hollstein, Thomas; Reinsalu, Uljana; Tammemäe, Kalle; Le Moullec, Yannick; Kuusik, Alar; Reidla, Marko; Annus, Paul** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication

### **SmartBAN performance evaluation for diverse applications**

Khan, Rida; **Alam, Muhammad Mahtab** Body Area Networks : Smart IoT and Big Data for Intelligent Health Management. 14th EAI International Conference, BODYNETS 2019, Florence, Italy, October 2-3, 2019 : Proceedings 2019 / p. 239-251  
[https://doi.org/10.1007/978-3-030-34833-5\\_19](https://doi.org/10.1007/978-3-030-34833-5_19) [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Some errors during impedance measurement**

**Annus, Paul; Land, Raul; Min, Mart** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 90

### **Some novel algorithms for processing sensor array output signals = Uudsed algoritmid antennivõre väljundsignaali töötlemiseks**

**Tart, Allan** 2021 [https://www.ester.ee/record=b5432623\\*est](https://www.ester.ee/record=b5432623*est) <https://digikogu.taltech.ee/et/Item/531692ce-bea0-44ef-afa5-43048e728052>  
<https://doi.org/10.23658/taltech.26/2021>

### **Some observations on impedance and Ferranti effect**

**Land, Raul; Min, Mart; Annus, Paul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

### **Soojussaarte hindamine Eesti linnades 2014-2019**

**Märtens, Olev; Pärj, Riina; Služenikina, Jekaterina** 2020 [https://keskkonnaportaal.ee/sites/default/files/2024-08/2020\\_02\\_22\\_om\\_kka\\_report.pdf](https://keskkonnaportaal.ee/sites/default/files/2024-08/2020_02_22_om_kka_report.pdf)

### **Sparse reconstruction method for separating cardiac and respiratory components from electrical bioimpedance measurements**

**Butsenko, Maksim; Märten, Olev; Krivošei, Andrei; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2018 / p. 57-61 : ill <https://doi.org/10.5755/j01.eie.24.5.21844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Special issue "Advanced hardware implementations for IoT systems and applications"**

2022 [https://www.mdpi.com/journal/electronics/special\\_issues/Hardware\\_IoT](https://www.mdpi.com/journal/electronics/special_issues/Hardware_IoT)

### **Standards for acousto-mechanical evaluation of multiscale hysteretic properties of complex material with nonlinear time reversal imaging**

Dos Santos, Serge; **Lints, Martin**; Arruga, Denis; **Masood, Ali; Salupere, Andrus** Application of Contemporary Non-Destructive Testing in Engineering : conference proceedings 2017 / p. 49-57 : ill <https://www.ndt.net/search/docs.php3?showForm=off&id=22548>  
<http://lab.fs.uni-lj.si/latem/ndt/userfiles/file/Conference%20proceedings.%20ICNDT%202017.pdf>

### **Steady state analysis of the commutating LC filter based dual active bridge for the isolation stage of power electronic transformer [Electronic resource]**

**Beldjajev, Viktor; Rang, Toomas; Zakis, Janis** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 138-143 : ill [CD-ROM]

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

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

### **Study of electrode locations for joint acquisition of impedance- and electro-cardiography signals**

**Metshein, Margus**; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry; **Annus, Paul; Land, Raul; Märten, Olev** 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) Oct 31 - Nov 4, 2021 : virtual conference 2021 / p. 7264-7267 : ill <https://doi.org/10.1109/EMBC46164.2021.9629504> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Study of estimation based functional iteration approximation dividers**

**Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants** ICCE-2021 IEEE International Conference on Consumer Electronics, CES 2021 / p. 1-4 <https://doi.org/10.1109/ICCE50685.2021.9427657> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Study of surface defects in 4H-SiC Schottky diodes using a scanning Kelvin probe**

Mizsei, Janos; **Korolkov, Oleg; Toompuu, Jana; Mikli, Valdek; Rang, Toomas** Silicon Carbide and Related Materials 2012 : selected peer reviewed papers from the 9th European Conference on Silicon Carbide and Related Materials (ECSCRM 2012), September 2-6, 2012, St. Petersburg, Russian Federation 2013 / p. 677-680 : ill <https://doi.org/10.4028/www.scientific.net/MSF.740-742.677> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

### **Study of surface defects in 4H-SiC Schottky diodes using a scanning Kelvin probe**

Mizsei, Janos; **Korolkov, Oleg; Toompuu, Jana; Rang, Toomas** The 9th European Conference on Silicon Carbide and Related Materials : abstract book : St. Petersburg Russia, 2-6 September, 2012 2012 / 2 p. : ill

### **Suboptimal radio resource management for full-duplex enabled small cells**

**Hassan, Malik**; Ghoraiishi, Mir; Tafazolli, Rahim 2017 IEEE International Conference on Communications Workshops (ICC Workshops) 2017 / p. 942-947 : ill <https://doi.org/10.1109/ICCW.2017.7962780>

### **A survey on open-access reference image database for lung cancer**

**Gupta, Anindya; Märten, Olev; Le Moullec, Yannick** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 47-50 : ill

### **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](#)

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

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

### **Sustainable scheduling for ultra massive machine type communication using NOMA in 6G O-RAN**

**Latif, Aamir; Alam, Muhammad Mahtab; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick** Digital Proceedings of the European Conference on Networks and Communications & 6G Summit 2024 (EuCNC 2024) 2024

### **SVM Time series classification of selected gait abnormalities**

Rostovski, Jakob; **Krivošei, Andrei; Kuusik, Alar; Ahmadov, Ulvi** BODYNETS 2021: Body Area Networks. Smart IoT and Big Data for Intelligent Health Management : 16th EAI International Conference, BODYNETS 2021, Virtual Event, October 25-26, 2021 : proceedings 2022 / 15 p [https://doi.org/10.1007/978-3-030-95593-9\\_16](https://doi.org/10.1007/978-3-030-95593-9_16) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Südame südames**

**Min, Mart** Sirp 2016 / lk. 35-36 : portr <http://www.sirp.ee/s1-artiklid/c21-teadus/sudame-sudames/>

### **Sünkroonmuundustehnika faasitundliku spektraalanalüüsi vahendina : magistritöö**

**Land, Raul** 1992 [https://www.ester.ee/record=b2630379\\*est](https://www.ester.ee/record=b2630379*est)

### **Süvatehnoloogiate alternatiivsed arengutrajektoolid ja nende tähendus Eestile : lõpparuanne**

Koppel, Kaupo; Kuusik, Alar; Arrak, Kadri; **Raik, Jaan; Niidu, Allan**; Kõks, Kerttu-Liis; **Lahtvee, Petri-Jaan** 2023 <https://media.voog.com/0000/0037/5345/files>

### **Synchronization algorithm for RFID-reader and its implementation**

**Märten, Olev**; Liimets, Aivar; **Kuusik, Alar** 2015 Advances in Wireless and Optical Communications RTUWO : 5-6 November 2015, Riga, Latvia : proceedings 2015 / p. 82-85 : ill <https://doi.org/10.1109/RTUWO.2015.7365725>

### **Synchronous approximation and processing of sampled data signals**

**Land, Raul** 2002 [https://www.ester.ee/record=b1688698\\*est](https://www.ester.ee/record=b1688698*est)

### **System for bioimpedance signal simulation from pulsating blood flow in tissues**

**Gordon, Rauno; Pesti, Ksenija** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 51-58 : ill

### **System level modeling of phase locked loops : behavioral analysis and parameterization**

**Paavle, Toivo** 2003 [https://www.ester.ee/record=b1809261\\*est](https://www.ester.ee/record=b1809261*est)

### **System level optimizations in wearable wireless networks = Kantavate seadmete võrkude süsteemi tasemel optimeerimine**

**Khan, Rida** 2021 [https://www.ester.ee/record=b5403571\\*est](https://www.ester.ee/record=b5403571*est) <https://digikogu.taltech.ee/et/Item/5d6402a5-a537-4bf4-a5e0-988b8685228b> <https://doi.org/10.23658/taltech.10/2021>

### **Tallinna kaupmehe pojast füüsikaklassikuks. Thomas Johann Seebeck (1770-1831)**

**Velmre, Enn** Vana Tallinn. XXIII (XXVII) 2012 / lk. 274-286 : ill [https://artiklid.elnet.ee/record=b2538155\\*est](https://artiklid.elnet.ee/record=b2538155*est)

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

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

### **TalTech asub arendama riigikaitseks vajalikke tehnoloogiaid**

postimees.ee 2025 <https://haridus.postimees.ee/8164433/taltech-asub-arendama-riigikaitseks-vajalikke-tehnoloogiad>

### **TalTech avab uue võrgutehnoloogiate ja -teenuste magistrikava**

Mente et Manu 2023 / lk. 11 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **TalTech moderniseerib elektroonikaalast kõrgharidust**

**Lemendik, Laur** Director. Inseneeria 2019 / lk. 76-77 : fot [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est) <https://director.ee/tag/laur-lemendik/?v=a57b8491d1d8>

### **TalTech ootab logistikasektorilt koostööd**

Transport ja Logistika : infoleht 2020 / lk. 2 [https://www.ester.ee/record=b1975868\\*est](https://www.ester.ee/record=b1975868*est)

### **TalTechi elektroonikatudengid ehitasid valmis väga vajaliku prototüübi Eesti lennundusele**

postimees.ee 2024 [TalTechi elektroonikatudengid ehitasid valmis väga vajaliku prototüübi Eesti lennundusele](#)

### **TalTechi professor: elektroonika- ja IKT-tööstus tõukavad tagant digi- ja rohepööret**

**Le Moullec, Yannick** toostusuudised.ee 2023 [TalTechi professor: elektroonika- ja IKT-tööstus tõukavad tagant digi- ja rohepööret](#)

### **TalTechis hakatakse testima 6G võrku. Margus Rohtla: „Oleks vaid minu õpingute ajal sellised võimalused olnud!“**

Lindpere, Elle Isabel forte.delfi.ee 2023 [TalTechis hakatakse testima 6G võrku. Margus Rohtla: „Oleks vaid minu õpingute ajal sellised võimalused olnud!“](#)

### **Tartu südamekirurgidele tulevad appi TalTechi teadlased**

Koovit, Joanna goodnews.ee 2025 [Tartu südamekirurgidele tulevad appi TalTechi teadlased](#)

### **Task classification for optimal offloading and resource allocation in vehicular edge computing**

Mubashir, Memon; Ahmad, Rizwan; Saadat, Ahsan; Chaudhry, Saqib Rasool; Kiani, Adnan Khalid; **Alam, Muhammad Mahtab** 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 15-21 <https://doi.org/10.1109/FMEC59375.2023.10306155>

### **Task offloading in mobile fog computing by classification and regression tree**

**Rahbari, Dadmehr;** Nickray, Mohsen Peer-to-Peer networking and applications 2020 / p. 104–122 <https://doi.org/10.1007/s12083-019-00721-7>

### **Teadlased tugevdavad Läänemere riikide digitaristut ja ühenduvust**

**Vaaks, Eveliis** Trialoog 2025 <https://trialoog.taltech.ee/taltech-teadlased-tugevdavad-laanemere-riikide-digitaristut-ja-uhenduvust/>

### **Teadus on liigestest lahti**

**Min, Mart** Sirp 2019 / lk. 26-27 : ill <https://sirp.ee/s1-artiklid/c21-teadus/teadus-on-liigestest-lahti/> [https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est) <https://novaator.err.ee/908974/mart-min-eesti-teadus-on-liigestest-lahti>

### **Teaduse ja ülikoolide rahastamisest tehnikateaduse poolelt**

**Märtens, Olev** Sirp 2021 / lk. 15 <https://www.sirp.ee/s1-artiklid/c21-teadus/vastukaja-teaduse-ja-ulikoolide-rahastamisest-tehnikateaduse-poolet/>

### **Teaduselt ühiskonnale : mis on spektroskoopia : vastab professor Mart Min**

**Min, Mart** KesKus 2013 / lk. 44 : ill

### **Tehisaru - inimesed - robotid : [viienda tööstusrevolutsiooni ootel]**

Alvela, Ain Tehnikamaailm 2025 / lk. 44-48 : ill [https://www.ester.ee/record=b1073050\\*est](https://www.ester.ee/record=b1073050*est)

### **Tele2 Eesti и TalTech открывают лабораторию оптоволоконной связи и сенсорики**

rus.delfi.ee 2025 [Tele2 Eesti и TalTech открывают лабораторию оптоволоконной связи и сенсорики](#)

### **Tele2 tehnoloogiajuht: TalTechi telekomi magistrikava aitab tippspetsialistist juhi teha**

delfi.ee 2024 [Tele2 tehnoloogiajuht: TalTechi telekomi magistrikava aitab tippspetsialistist juhi teha](#)

### **The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics**

**Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed** Applied sciences 2020 / art. 7572, 15 p. : ill <https://doi.org/10.3390/app10217572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics**

**Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed** Advances in machine fault diagnosis 2022 / p. 27-41 <https://doi.org/10.3390/app10217572>

### **The current state of voice over Internet protocol in wireless mesh networks**

Meeran, Mohammad Tariq; **Annus, Paul; Le Moullec, Yannick** 2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI) : September 21-24, 2016, The LNM Institute of Information Technology (LNMIT), Jaipur, India 2016 / p. 2567-2575 : ill <https://doi.org/10.1109/ICACCI.2016.7732444>

### **The dependence of reverse recovery time on barrier capacitance and series on-resistance in Schottky diodes**

**Veher, Oleksandr; Sleptšuk, Natalja; Toompuu, Jana; Korolkov, Oleg; Rang, Toomas** Materials and contact characterisation VIII 2017 / p. 15-22 : ill <https://doi.org/10.2495/MC170021> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The measurement and tuning of SiC diode voltage doubler represented as diffusion-welded stack [Online resource]**

**Toompuu, Jana; Sleptšuk, Natalja; Land, Raul; Korolkov, Oleg; 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.2018.8600963>

### **The piezo-electric impedance spectroscopy : solutions and applications = Piesoelektriline impedants-spektroskoopia : lahendused ja rakendused**

**Saar, Tõnis** 2013 [https://www.ester.ee/record=b2967240\\*est](https://www.ester.ee/record=b2967240*est)

### **Thermal analysis of a disposable, instrument-free DNA amplification lab-on-a-chip platform**

**Pardy, Tamas; Rang, Toomas;** Tulp, Indrek Sensors 2018 / art. 1812, 13 p. : ill <https://doi.org/10.3390/s18061812> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Thomas Johann Seebeck : Vom Tallinner Kaufmannssohn zum Klassiker der Physik**

**Velmre, Enn;** Glesner, Manfred; Hasselblatt, Cornelius; Müller-Harang, Ulrike 2025 <https://www.waterstones.com/book/thomas-johann-seebeck/enn-velmre/manfred-glesner/9783662719794>

### **3D finite element modelling of mixing phenomena in droplet-based microfluidic systems**

Szomor, Zsombo; **Gyimah, Nafisat;** Fürjes, Peter; Pardy, Tamas 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p <https://doi.org/10.1109/BEC61458.2024.10737975> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Throughput and channel aware MAC scheduling for SmartBAN standard**

**Khan, Rida; Alam, Muhammad Mahtab;** Paso, Tuomas; Haapola, Jussi IEEE Access 2019 / p. 63133-63145 : ill <https://doi.org/10.1109/ACCESS.2019.2916159> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Throughput-aware cooperative reinforcement learning for adaptive resource allocation in device-to-device communication**

**Khan, Muhidul Islam; Alam, Muhammad Mahtab; Le Moullec, Yannick; Yaacoub, Elias** Future Internet 2017 / art. 72, p. 1-17 : ill <https://doi.org/10.3390/fi9040072>

### **Tight coupling of GNSS and IMU using extended Kalman filtering**

Babri, Usman Muhammad; Irfan Haider Jillani, Muhammad; Ahmad, Rizwan; **Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737945> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Time dependency of current harmonics for switch-mode power supplies**

**Iqbal, Muhammad Naveed; Kütt, Lauri; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton;** Demidova, Galina Applied sciences 2020 / art. 7806, 12 p. : ill <https://doi.org/10.3390/app10217806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Time-domain manipulating of short-time chirps**

**Paavle, Toivo; Min, Mart** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 129-132 : ill

### **A tool for lung nodules analysis based on segmentation and morphological operation**

**Gupta, Anindya; Märten, Olev; Le Moullec, Yannick; Saar, Tõnis** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 193-197 : ill <http://dx.doi.org/10.1109/WISP.2015.7139186>

### **Towards a wearable device for capacitive monitoring of electrical bioimpedance of human body**

**Metshein, Margus; Parve, Toomas** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

### **Towards efficient wireless body area network using two-way relay cooperation**

Waheed, Maham; Ahmad, Rizwan; **Alam, Muhammad Mahtab** Sensors 2018 / art. 565, 23 p. : ill <https://doi.org/10.3390/s18020565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Towards optimal placement and runtime migration of time-sensitive services of connected and automated vehicles**

**Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick;** Reggiani, Luca; Azeem, Muhammad Moazam; Taleb, Tarik; **Alam, Muhammad Mahtab** IEEE Open Journal of Vehicular Technology 2024 / p. 13-33 <https://doi.org/10.1109/OJVT.2024.3496583>

**Transient computing pour les réseaux de capteurs sans fil à récolte d'énergie : méthodes d'hibernation et aspects architecturaux**

**Le Moullec, Yannick;** Diguët, Jean-Philippe Compas 2016 : Conférence d'informatique en Parallélisme, Architecture et Système 2016 : Lorient, France, 5-8 July 2016 2016 / [8] p

**Transmission fiber nonlinearity mitigation in optical communication links using phase-sensitive parametric amplifiers = Edastusfiibri mittelineaarsete mõjutuste vähendamise optiliste sidesüsteemides faasitundlike parameetrite võimendite abil**

**Astra, Egon** 2019 <https://digikogu.taltech.ee/et/Item/2a85df1e-6c58-45ef-8814-29510894bfc3>

**TTÜ Mektory Kosmosekeskuse satelliidi alamsüsteemid on valmis**

**Gordon, Rauno** Mente et Manu 2017 / lk. 39 : fot [https://www.ttu.ee/public/m/mente-et-manu/MM\\_03\\_2017/mobile/index.html#p=1](https://www.ttu.ee/public/m/mente-et-manu/MM_03_2017/mobile/index.html#p=1)  
[https://artiklid.elnet.ee/record=b2820650\\*est](https://artiklid.elnet.ee/record=b2820650*est)

**TTÜ100 Satelliidiga läheb kosmosesse "Ta lendab mesipuu poole"**

**Gordon, Rauno** Mente et Manu 2017 / lk. 39 : fot [https://www.ttu.ee/public/m/mente-et-manu/MM\\_04\\_2017/mobile/index.html#p=1](https://www.ttu.ee/public/m/mente-et-manu/MM_04_2017/mobile/index.html#p=1)  
[https://artiklid.elnet.ee/record=b2826921\\*est](https://artiklid.elnet.ee/record=b2826921*est)

**Tudengisatelliit Hämarik lõpetas langeva tähena**

Imeline Teadus 2024 / lk. 21 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

**2018 16th Biennial Baltic Electronics Conference (BEC) : TalTech University, October 8-10, 2018, Tallinn, Estonia [Online resource]**

2018 <https://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8560605> [https://www.ester.ee/record=b2150914\\*est](https://www.ester.ee/record=b2150914*est)

**2018 IEEE Nordic Circuits and Systems Conference (NORCAS) : NORCHIP and International Symposium of System-on-Chip (SoC) : 30-31 October 2018, Tallinn, Estonia : proceedings in IEEE Xplore [Online resource]**

2018 <https://ieeexplore.ieee.org/xpl/conhome/8552599/proceeding>

**Tõenäoliselt peideti piiparitesse lõhkelaengud**

Pärm, Rein postimees.ee 2024 [Tõenäoliselt peideti piiparitesse lõhkelaengud](https://postimees.ee/2024/05/24/toenaoliselt-peideti-piiparitesse-lohkelaengud)

**UAV and SWIPT assisted disaster aware clustering and association**

Hassan, Ali; Ahmad, Rizwan; Ahmed, Waqas; Magarini, Maurizio; **Alam, Muhammad Mahtab** IEEE Access 2020 / p. 204791–204803 <https://doi.org/10.1109/ACCESS.2020.3035959> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**UAV trajectory planning for disaster scenarios**

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

**Ultrasonic transducers self-calibration of nonlinear time reversal based experiments using memristor [Online resource]**

Dos Santos, Serge; **Masood, Ali** 12th European Conference on Non-destructive Testing : proceedings 2018 / 8 p. : ill <http://www.ecndt2018.com/abstract/ultrasonic-transducers-self-calibration-of-nonlinear-time-reversal-based-experiments-using-memristor/>  
<http://www.ecndt2018.com/programme/list-of-authors/>

**Uncovering some hidden pages in the life of Thomas Johann Seebeck**

**Velmre, Enn** Journal of thermoelectricity 2015 / p. 5-9 [http://jt-old.ite.cv.ua/jt\\_2015\\_04\\_en.pdf](http://jt-old.ite.cv.ua/jt_2015_04_en.pdf)

**A Unique backoff algorithm in IEEE 802.15.6 WBAN**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab** 2018 IEEE 88th Vehicular Technology Conference (VTC-Fall) : Chicago, IL, USA 27 - 30 August 2018 : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/VTCFall.2018.8690812>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A unique backoff algorithm in IEEE 802.15.6 WBAN**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab** The 88th IEEE Vehicular Technology Conference : Final Programme, 27-30 August 2018, Chicago, USA 2018 / p. 48 <http://www.ieeevtc.org/vtc2018fall/final-program.pdf>

**Unsupervised feature mapping via stacked sparse autoencoder for automated detection of large pulmonary nodules in CT images**

**Gupta, Anindya;** Saar, Tõnis; **Märtens, Olev; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 59-63 : ill <https://doi.org/10.5755/j01.eie.23.6.19695> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

**Urban temperatures in Estonia 2014-2024 by Landsat data**

Vint, Kairi; **Märtens, Olev**; Služenikina, Jekaterina Conference Program : 7th Winter Satellite Workshop 2025 / 2 p  
<https://drive.google.com/file/d/1O04gQvxOtpWq6Wu02oWrVdZtlxO4PQr/view?pli=1>

**Using neural networks to model self-immune disease in terms of the alterations of the dynamic electrical impedance**

**Giannoukos, Georgios; Min, Mart** Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850001-1 - 850001-4 <https://doi.org/10.1063/1.4913056>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Uue ajastu diabeediravi**

Vaaks, Eveliis; **Metshein, Margus** Trialoog 2025 <https://trialoog.taltech.ee/uue-ajastu-diabeediravi/>

**Uus lähenemine võib muuta insuldipatsientide kõnni turvalisemaks**

novaator.err.ee 2025 <https://novaator.err.ee/1609785135/uus-lahenemine-voib-muuta-insuldipatsientide-konni-turvalisemaks>

**UWB positioning integrity estimation using ranging residuals and ML augmented filtering**

**Tommingas, Mihkel; Alam, Muhammad Mahtab; Mürsepp, Ivo**; Ulp, Sander IEEE Journal of indoor and seamless positioning and navigation 2024 / p. 205-218 <https://doi.org/10.1109/JSPIN.2024.3418296>

**Validation of simulations of eddy current methods with measurements on phantom materials for biomedical engineering R&D**

**Pesti, Ksenija; Kõiv, Hip; Gordon, Rauno** International journal of bioelectromagnetism 2015 / p. 57-63 : ill

**Validation of simulations of eddy current methods with measurements on phantom materials for biomedical engineering R&D**

**Pesti, Ksenija; Kõiv, Hip; Gordon, Rauno** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**Validation of wired and wireless interconnected body sensor networks**

Talpur, Anum; Shaikh, Faisal Karim; Baloch, Natasha; Felemban, Emad; Khelil, Abdelmajid; **Alam, Muhammad Mahtab** Sensors 2019 / art. 3697, 23 p. : ill <https://doi.org/10.3390/s19173697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Variation of cardiac and respiratory waveform on human thorax in the case of inductive coupling**

**Metshein, Margus; Annus, Paul; Land, Raul; Krivošei, Andrei; Ojarand, Jaan**; Aabloo, Alvo; **Min, Mart** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 671-674 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_168](https://doi.org/10.1007/978-981-10-5122-7_168) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Wearable data acquisition system of multimodal physiological signals for personal health care**

**Annus, Paul; Samiepour, Ali; Rist, Marek**; Ruiso, Indrek; **Krivošei, Andrei; Land, Raul; Parve, Toomas; Min, Mart** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 107-112 : ill <https://doi.org/10.3233/978-1-61499-268-4-107> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Wearable m-assessment system for neurological disease patients**

**Kuusik, Alar; Alam, Muhammad Mahtab; Kask, Triin; Gross-Paju, Katrin** Proceedings : IEEE 4th World Forum on Internet of Things 2018 / p. 201-206 : ill <https://doi.org/10.1109/WF-IoT.2018.8355165>

**Wearable solutions for monitoring cardiorespiratory activity = Kehal kantavad vahendid kardiorespiatoorse aktiivsuse jälgimiseks**

**Metshein, Margus** 2018 <https://digi.lib.ttu.ee/i/?9961> [https://www.ester.ee/record=b5140297\\*est](https://www.ester.ee/record=b5140297*est)

**Wearable system for non-invasive and continuous monitoring central aortic pressure curve and augmentation index**

**Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 101-106 : ill <https://doi.org/10.3233/978-1-61499-268-4-101> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Wearable wireless sensor networks for emergency response in public safety networks**

**Alam, Muhammad Mahtab**; Ben Arbia, Dhafer; Ben Hamida, Elyes Wireless public safety networks 2 : a systematic approach 2016 / p. 63-94 : ill <https://doi.org/10.1016/B978-1-78548-052-2.50003-7>

**Wideband excitation signals for fast impedance spectroscopy of biological objects = Lairiba ergutussignaalid bioloogiliste objektide kiiretoimelise bioimpedants-spektroskoopia jaoks**

**Ojarand, Jaan** 2012 [https://www.ester.ee/record=b2896512\\*est](https://www.ester.ee/record=b2896512*est)

## **5G-hirmudel pole teaduslikku alust**

Müürsepp, Ivo Postimees 2019 / Arter, lk. 26 [Lükkame ümber! 5G-hirmudel pole teaduslikku alust](#)

## **Vision towards 5G : comparison of radio propagation models for licensed and unlicensed indoor femtocell sensor networks**

Shabbir, Noman; Kütt, Lauri; Alam, Muhammad Mahtab; Roosipuu, Priit Physical communication 2021 / art. 101371

<https://doi.org/10.1016/j.phycom.2021.101371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Workforce management in small student run satellite program**

Dihuliya, Divya; Vihmand, Mart; Ehrminger, Robin 66th International Astronautical Congress 2015 (IAC 2015) : Space - The Gateway for Mankind's Future, Jerusalem, Israel, 12-16 October 2015 2015 / p. 10135-10137 <https://dl.iafastro.directory/event/IAC-2015/paper/31126/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **Võta või jäta!**

Rang, Toomas Mente et Manu 2010 / lk. 2 : fot. ; 12. veebr., lk. 3 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

## **Väikesatelliit TTÜ100 : läbi testide tähtede poole**

Kongas, Kerttu Director. Inseneeria 2017 / lk. 128-131 : fot [http://www.ester.ee/record=b1519314\\*est](http://www.ester.ee/record=b1519314*est)  
[https://artiklid.elnet.ee/record=b2830945\\*est](https://artiklid.elnet.ee/record=b2830945*est)

## **Värske veri TTÜs**

Alam, Muhammad Mahtab; Kolde, Kristjan; Kuivjõgi, Kaja; Lung, Marti; Parnell, Kevin Ellis; Preis, Sergei Mente et Manu 2018 / lk. 47-49 : portr [https://ttu.ee/public/m/mente-et-manu/MM\\_02\\_2018/mobile/index.html#p=6](https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6) [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est)  
<http://dea.digar.ee/publication/AKmenteetmanu> [https://artiklid.elnet.ee/record=b2862662\\*est](https://artiklid.elnet.ee/record=b2862662*est)

## **Õppejõud Priit Roosipuu: ebaõnnestumised väga head õppimiskohad**

Jakobson, Maris postimees.ee 2023 [Õppejõud Priit Roosipuu: ebaõnnestumised väga head õppimiskohad](#)

## **Ökonoomsete negatiivse diferentsiaaltakistusega astmete ja elementide disainimine ja optimeerimine**

Taniloo, Rainer 2005 [https://www.ester.ee/record=b2073482\\*est](https://www.ester.ee/record=b2073482*est)

## **Ülikool ootab ettevõtlikust, efektiivsust ja edukust**

Rang, Toomas Mente et Manu 2015 / lk. 8-9 : fot [https://artiklid.elnet.ee/record=b2725557\\*est](https://artiklid.elnet.ee/record=b2725557*est)

## **Yannick Le Moullec. Combines electronics and health applications**

Le Moullec, Yannick Estonian Centre of Excellence in ICT Research 2021 / p. 21-25 : ill <http://www.digar.ee/id/nlib-digar:634779>  
[https://www.ester.ee/record=b5456158\\*est](https://www.ester.ee/record=b5456158*est)

## **В ближайшие дни FM-волны будет штормить**

Saar, Sandra rus.err.ee 2023 [В ближайшие дни FM-волны будет штормить](#)

## **Из-за перебоев с электричеством у многих жителей Эстонии поломалась бытовая техника. Кто выплатит компенсацию?**

Karpi, A-M. rus.postimees.ee 2024 [Из-за перебоев с электричеством у многих жителей Эстонии поломалась бытовая техника. Кто выплатит компенсацию?](#)

## **Низкотемпературный отжиг слаболегированных слоев n-4H-SiC после облучения быстрыми электронами**

Korolkov, Oleg; Kozlovski, Vitali; Lebedev, Alexander; Sleptšuk, Natalja; Toompuu, Jana; Rang, Toomas Физика и техника полупроводников 2019 / с. 991-994 <https://doi.org/10.21883/FTP.2019.07.47879.9089>

## **Преподаватель Taltech рассказал, почему глушитель GPS влияет на авиасообщение**

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

## **Современные носители данных не гарантируют сохранности фотографий и видео**

Piir, Rait nauka.err.ee 2024 [Современные носители данных не гарантируют сохранности фотографий и видео](#)