

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

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

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

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

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

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

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 Al₄H-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⁺-p-i-n⁺ structures

Toompuu, Jana; Sleptšuk, 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
[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; **Anus, 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://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 passive acoustic 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**; **Märtens, 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

Anus, Paul; **Priidel, Eiko**; **Land, Raul**; **Metshein, Margus**; **Krivošei, Andrei**; **Min, Mart**; **Ratassepp, Madis**; **Märtens, 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 [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**; **Anus, 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; **Anus, 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

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

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

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, Viiv; **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>

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://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://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 [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

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 [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://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://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

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

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

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

Sleptšuk, Natalja; Lebedev, Alexander A.; Eliseyev, 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.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 [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 [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; Verdiņš, 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

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

Hanif, Maria; Ahmad, Rizwan; Ahmed, Waqas; Driberg, 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

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

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 [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://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

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

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

Reeder, Reeno 2014 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-](https://doi.org/10.1007/978-3-319-12967-9_25)

[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://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://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

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

Udal, Andres 1998 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

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

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

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; **Krivosei, 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 I. <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

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 [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 [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

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

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

Elements of vedic mathematics

Patankar, Udayan Sunil; Patankar, Sunil M. 2018 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, Ifran; 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://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

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

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

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 diffusion welded 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 diffusion welded 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 Kingdom : [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 [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 = Pilditöötluse lahendused täpsetele tee profiili mõõtesüsteemidele

Mölder, Ago 2015 https://www.ester.ee/record=b4476678*est

Immunodetection of Streptococcus uberis pathogen in raw milk

Mihklepp, Kaisa; Kivirand, Kairi; Juronen, Delia; Löökene, 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>

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 l. <https://doi.org/10.1109/BEC56180.2022.9935597>

Impedance detection

Min, Mart; Parve, Toomas; Pliquett, 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 rakendamine 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

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/10.1088/1742-6596/434/1/012029> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Improved impedance analyzer with binary excitation signals

Märten, 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

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/mnstemp/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

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

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

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
<https://doi.org/10.1371/journal.pone.0189968> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 IWCNC 2021 Wireless Sensors & IoT: 2021 International Wireless Communications and Mobile Computing (IWCNC), Harbin, China, June 28 - July 2, 2021 / p. 400-405 <https://doi.org/10.1109/IWCNC51323.2021.9498970>

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-SiC Schottky 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

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

Parker, Martin; Pokatilov, Andrei; Kübarsepp, Toomas; Märten, 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

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

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](#)

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

Jälle Kert Kingo - Eesti pidurdab 5G tulevikutehnoloogiat

Mürsepp, I. epl.delfi.ee 2019 [Jälle Kert Kingo - Eesti pidurdab 5G tulevikutehnoloogiat](#)

Järgnevatel päevadel võib FM-raadio justkui ise kanalit vahetada

Saar, Sandra novaator.err.ee 2023 ["Järgnevatel päevadel võib FM-raadio justkui ise kanalit vahetada"](#)

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](#)

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

Kuupsatelliit lõpetas ereda leegiga

Imeline Teadus 2024 / lk. 21 : fot 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](#) Ekspert: 5G jõuab tavakasutusse viie aastaga, 6G tuleb järgmisel kümnendil

60 aastat elektroonikainstituuti : 1962-2022

2023 https://www.ester.ee/record=b5557188*est

Kõrgsageduslik lülitrežiimne sünkroondetektor : magistritöö

Kuusik, Alar 1995 https://www.ester.ee/record=b2680357*est

Laia keelutsooniga pooljuhtmaterjalidel põhinevad pooljuhtseadised

Rang, Toomas; Rang, Galina Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 169-176 : ill., fot 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; Märtens, 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

Mihailov, 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

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

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

Maailma muutvad tilgad

Pardy, Tamas; Vaaks, Eveliis Trialoog 2025 <https://trialoog.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 [Article collection](#) [metrics at Scopus](#) [Article at Scopus](#)

Magnetic induction sensor for the respiration monitoring

Ojarand, Jaan; Pille, Siim; **Min, Mart**; **Land, Raul**; **Oleitšuk, 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 <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>

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

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/circuitssystemssignal/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>

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?sessionId=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⁺-pin-n⁺ structures and result of analysis

Toompuu, Jana; Sleptsuk, 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

Methods for detection of bioimpedance variations in resource constrained environments

Priidel, Eiko; Annus, Paul; Krivošei, Andrei; Rist, Marek; Land, Raul; Min, Mart; Märten, 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; Märten, 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://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

Militaarobjektide valvetehnoloogia areng

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

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

Krivošei, Andrei 2009 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&acname=guest&checksum=7B52C0279E1600FDE3FC6BECEED8CE4F> [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

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

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://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 [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 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

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 Moulec, 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

A multi-perspective methodology for agent-oriented business modelling and simulation

Taveter, Kuldar 2004 http://www.ester.ee/record=b1910546*est

Mõõtetehnilised lülitrežiimsed sünkroonmudelid : magistritöö

Parve, Toomas 1992 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

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

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

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

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

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

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

Nanotehnoloogiad [Võrguteavik] : sõnastik. Osa 8, Nanotootmisprotsessid = Nanotechnologies : vocabulary. Part 8, Nanomanufacturing processes (ISO/TS 80004-8:2013)

2015 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

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://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; Mwakwata, Collins Burton; Alam, Muhammad Mahtab; Le Menach, Yvonnick; Päränd, Sven Elektriala 2019 / lk. 14-18 : ill http://www.ester.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/IJDST.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 XIVth 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; Märtens, 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 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; Velmre, 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,

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.eester.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; Märten, 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 <https://doi.org/10.3390/electronics5040089> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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](#)

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](#)

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

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

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

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

Mürsepp, 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; Driberg, 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 [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; **Märtens, 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

Märtens, 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.estel.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

Märtens, 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; Hämmäläinen, 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.estel.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.estel.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 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Principles for the design of impedance spectroscopy devices for identification of dynamic bio-systems = Dünaamiliste biosüsteemide impedantspektroskoopia seadmete disaini printsiibid

Rist, Marek 2018 <https://digi.lib.ttu.ee/i/?9260> https://www.estel.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

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](#)

Pöörivool tuvastab võltsmündid ja liigutab hõljukronge

Vill, Ants Director. Inseneeria 2021 / lk. 74-80 : fot 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; Märten, 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; Märten, 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/10.1007/978-981-10-5122-7_73 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Radio access network subslicing in closed control loop for improved slice performance management =

Raadiojuurdepääsu võrguviilu alamviilutamise 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

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

Rahastagem vaid erialasid, mida tööturg vajab. Ülejäänud on hobid

Mürsepp, 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

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

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

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

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 [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

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, Yannick; **Le Moulec, 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 köidab 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://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

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 [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 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; Märtsens, 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-eesti-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, Atis 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

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 Technologies : December 5-6, 2014, Rakvere 2014 / p. 111-112 : ill

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 [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.estee.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://keskkonnaportaali.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; Märtens, 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

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**; **Märtens, 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; Ghoraishi, 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; **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. 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 [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

Süvatehnoloogiate alternatiivsed arengutrajektoorid 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

Märtens, 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

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

System level optimizations in wearable wireless networks = Kantavate seadmete võrkude süsteemi tasemel optimeerimine

Khan, Rida 2021 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

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](https://www.tartupostimees.ee/2024/04/11/tallinna-tehnika-ue-likooli-lektor-selgitab-miks-gps-i-segaja-mo-ju-utab-just-eriti-lennuliiklust/)

TalTech asub arendama riigikaitseks vajalikke tehnoloogiaid

postimees.ee 2025 <https://haridus.postimees.ee/8164433/taltech-asub-arendama-riigikaitseks-vajalikke-tehnoloogiaid>

TalTech avab uue võrgutehnoloogiate ja -teenuste magistrikava

Mente et Manu 2023 / lk. 11 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 <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

TalTechi elektroonikatudengid ehitasid valmis väga vajaliku prototüübi Eesti lennundusele

postimees.ee 2024 [TalTechi elektroonikatudengid ehitasid valmis väga vajaliku prototüübi Eesti lennundusele](https://www.postimees.ee/2024/04/11/taltech-i-elektroonikatudengid-ehitasid-valmis-vaaga-vajaliku-prototyubi-est-i-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](https://www.toostusuudised.ee/2023/04/11/taltech-i-professor-elektroonika-ja-ikt-toostus-toukavad-tagant-digi-ja-rohepooret/)

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!“](https://www.forte.delfi.ee/2023/04/11/taltech-is-hakatakse-testima-6g-vorku-margus-rohtla-oleks-vaid-minu-opingute-ajal-sellised-voimalused-olnud/)

Tartu südamekirurgidele tulevad appi TalTechi teadlased

Koovit, Joanna goodnews.ee 2025 [Tartu südamekirurgidele tulevad appi TalTechi teadlased](https://www.goodnews.ee/2025/04/11/tartu-sudamekirurgidele-tulevad-appi-taltech-i-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*esthttps://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-poolelt/>

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

Tele2 Eesti и TalTech открывают лабораторию оптоволоконной связи и сенсорики

rus.delfi.ee 2025 [Tele2 Eesti и TalTech открывают лабораторию оптоволоконной связи и сенсорики](https://www.delfi.ee/tele2-eesti-ja-taltech-avavad-laboratooriumi-optivoolokonnaseaduse-ja-sensorika-arendamiseks)

Tele2 tehnoloogiajuht: TalTechi telekomi magistrikava aitab tippspetsialistist juhi teha

delfi.ee 2024 [Tele2 tehnoloogiajuht: TalTechi telekomi magistrikava aitab tippspetsialistist juhi teha](https://www.delfi.ee/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

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](#)

3D finite element modelling of mixing phenomena in droplet-based microfluidic systems

Szomor, Zsombó; 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

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 optilistes sidesüsteemides faasitudlike parameetriliste 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://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://artiklid.elnet.ee/record=b2826921*est

Tudengisatelliit Hämarik lõpetas langeva tähena

Imeline Teadus 2024 / lk. 21 : fot 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

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/toenaoiselt-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

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, Tönis; **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 WOS](#) [Article at WOS](#)

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/1O04gQvxOtpWq6Wu02oWrVdZtlxO4P0r/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/>

UWB positioning integrity estimation using ranging residuals and ML augmented filtering

Tommingas, Mihkel; **Alam, Muhammad Mahtab**; **Müürsepp, 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 [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 kardiorespiratoorse aktiivsuse jälgimiseks

Metshein, Margus 2018 <https://digi.lib.ttu.ee/i/?9961> 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

5G-hirmodel pole teaduslikku alust

Müürsepp, Ivo Postimees 2019 / Arter, lk. 26 [Lükkame ümber! 5G-hirmodel 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

Väikesatelliit TTÜ100 : läbi testide tähtede poole

Kongas, Kerttu Director. Inseneeria 2017 / lk. 128-131 : fot http://www.ester.ee/record=b1519314*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 http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> 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

Ülikool ootab ettevõtlikust, efektiivsust ja edukust

Rang, Toomas Mente et Manu 2015 / lk. 8-9 : fot 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

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Saar, Sandra rus.err.ee 2023 [В ближайшие дни FM-волны будет штормить](#)

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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>

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