

A method of initial search region reduction for acoustic localization in distributed systems

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören Proceedings of the 20th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2013, Gdynia, Poland, June 20-22, 2013 2013 / p. 451-456 : ill

A two-stage approach to 2D DOA estimation for a compact circular microphone array

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören 2015 4th International Conference on Informatics, Electronics & Vision (ICIEV) : [proceedings] 2015 / [6] p. : ill

A two-stage approach to 2D DOA estimation for a compact circular microphone array

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören 2015 4th International Conference on Informatics, Electronics & Vision (ICIEV) : [abstracts] 2015 / p. 74-75

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](#)

Application of wideband signals in wireless telecommunications

Raja, Aimur Elektronika ir elektrotechnika = Electronics and electrical engineering 2001 / 2, p. 79-82 : ill

Approaches for improving VoIP QoS in WMNs

Meeran, Mohammad Tariq; Annus, Paul; Le Moullec, Yannick 2017 International Conference on Electrical Engineering and Computer Science (ICECOS 2017) : Palembang, Indonesia, 22-23 August 2017 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>

Aspects on the International Commission on Non-Ionizing Radiation Protection (ICNIRP) 2020 Guidelines on Radiofrequency Radiation

Hardell, Lennart; Nilsson, Mona; Koppel, Tarmo; Carlberg, Michael Journal of Cancer Science and Clinical Therapeutics 2021 / p. 250-285 <https://doi.org/10.26502/jcsct.5079117>

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

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>

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](#)

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

Jöemaa, 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>

Coil design for wireless power transfer with series-parallel compensation

Shevchenko, Viktor; Husev, Oleksandr; Pakhaliuk, Bohdan; Karlov, Olexii; Kondratenko, Igor 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / p. 401-407 <https://doi.org/10.1109/UKRCON.2019.8879877>

Communication area based positioning

Preden, Jürge-Sören 2006 IEEE International Conference on Mobile Adhoc and Sensor Systems (MASS) 2006 / p. 336-347
<https://ieeexplore.ieee.org/document/4053919>

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

Ben Arbia, Dhafer; Alam, Muhammad Mahtab; Le Moullec, Yannick; Hamida, Elyes Ben Technologies 2017 / art. 43, p.1-18 : ill
<http://dx.doi.org/10.3390/technologies5030043>

Comparative analysis of zigbee based wireless sensor networks (WSNs)

Shabbir, Noman; Hassan, Syed R.; Iqbal, Muhammad N.; Kütt, Lauri; Unbreen, A. International journal of recent technology and

engineering 2019 / p. 980-984 : ill <https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf> [Journal metrics at Scopus](#)
[Article at Scopus](#)

Comparative Analysis of ZigBee Based Wireless Sensor Networks (WSNs)

Shabbir, Noman; Hassan, Syed Rizwan; **Iqbal, Muhammad Naveed**; **Kütt, Lauri** Proceeding of the 4th International Conference on Recent Trends in Computer Science and Electronics 2019 / p. 115 http://www.rtcse.org/RTCSE_2019.pdf

Comparative Analysis of ZigBee Based Wireless Sensor Networks (WSNs)

Shabbir, Noman; Hassan, Syed Rizwan; **Iqbal, Muhammad Naveed**; **Kütt, Lauri**; Unbreen, Arooj International journal of recent technology and engineering 2019 / p. 980-984 : ill <https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf>

Comparative evaluation of multicoil inductive power transfer approaches based on Z-source network

Pakhaliuk, Bohdan; **Husev, Oleksandr**; Strzelecki, Ryszard; Shevchenko, Viktor; Maksym, Khomenko 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / 5 p <https://doi.org/10.1109/UKRCON.2019.8880002>

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>

Control of autonomous mobile robots using wireless network and MATLAB

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

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>

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>

Data communication services in mobile communication environment

Kuningas, Tarmo Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / p. 87-94 : ill

Data type dependent energy consumption estimation

Ruberg, Priit; **Lass, Keijo**; **Ellervee, Peeter** 2nd IEEE NORCAS Conference : 1-2 November 2016, Copenhagen, Denmark 2016 / [5] p. : ill <https://doi.org/10.1109/NORCHIP.2016.7792916>

Design and simulation verification of low power wireless charging battery system for electric bicycle

Shevchenko, Viktor; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Kondratenko, Igor 2018 IEEE 3rd International Conference on Intelligent Energy and Power Systems (IEPS) 2018 / p. 22-27 <https://doi.org/10.1109/IEPS.2018.8559531>

Development of a wireless communication network for monitoring and controlling of autonomous robots

Vu, Trieu Minh; **Tamre, Mart**; Musalimov, Victor; Kovalenko, Pavel; Monahov, Juri International journal of robotics and automation 2018 / 16 p <https://doi.org/10.2316/Journal.206.2018.3.206-4759> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
[Article at WOS](#)

Development of a wireless sensor network combining MATLAB and embedded microcontrollers

Vu, Trieu Minh; **Tamre, Mart**; Musalimov, Victor; Altunin, Valeri Sensor letters 2015 / p. 1091-1096 : ill

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>

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](#)

Eesti 5g-võrgu saaks katta siin toodetud seadmetega

Riisapp, Janno Postimees 2020 / Lk. 8-9 : ill <https://dea.digar.ee/article/postimees/2020/07/14/9.8>

Eestis langes tähtis otsus: 5G ei tapa [Võrguväljaanne]

Pau, Aivar tehnika.postimees.ee 2019 / fot [Eestis langes tähtis otsus: 5G ei tapa](#)

Effect of double-slope modulation signals on conducted emissions and efficiency of strongly coupled magnetic resonance WPT systems

Stepins, Deniss; Zakis, Janis; Audze, Janis; **Husev, Oleksandr**; Shevchenko, Viktor; Pakhaliuk, Bohdan 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2019 / 4 p <https://doi.org/10.1109/RTUCON48111.2019.8982351>

Effect of hybrid modulation on performance of wireless battery charger operating in CC/CV mode

Stepins, Deniss; Kathari, N.; Zakis, Janis; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Shevchenko, Viktor IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589544>

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>

Ehita ise wireless antenn!

Tamm, Asko Arvutimaailm 2002 / 7, lk. 48-49 : ill

802.11 Denial of Service ründed ja nende leevendamise : referaat

Rebane, Andri A & A 2009 / 2, lk. 43-50 : ill https://artiklid.elnet.ee/record=b1451681*est

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>

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-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](#)

Enhanced decision mechanism for RAN subslicing in management closed control loop

Kulmar, Marika; **Müürsepp, 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 <http://dx.doi.org/10.3390/jsan6030019>

Ensuring reliable wireless data transmission - performance study from field deployment

Leier, Mairo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK viienda aastakonverentsi artiklite kogumik : 25.-26. novembril 2011, Nelijärve 2011 / p. 151-155 : ill

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 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>

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

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](#)

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>

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](#)

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 of integrated wireless network and MATLAB system to control autonomous mobile robot

Tamre, Mart; Hudjakov, Robert; Shvarts, Dmitry; Põlder, Ahti; Hiiemaa, Maido; Juurma, Märt International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 18-25 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.18-25>

Inductive bifilar coil based wireless charging system for autonomous electric boat

Pakhaliuk, Bohdan; Husev, Oleksandr; Shevchenko, Viktor; Kroics, Kaspars; Stepins, Deniss; Strzelecki, Ryszard IEEE 31st International Symposium on Industrial Electronics (ISIE) 2022 / p. 758-761 <https://doi.org/10.1109/ISIE51582.2022.9831731>

In-process vibration monitoring on CNC lathe

Aruväli, Tanel; Serg, Risto; Otto, Tauno 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 174-178 : ill

Intelligent kitchen model for smart homes

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

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

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

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

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

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>

Kas Peruus võetakse 5G antennid maha, sest need on ohtlikud? [Võrguäljaanne]

Einama, Kaido postimees.ee 2022 [Kas Peruus võetakse 5G antennid maha, sest need on ohtlikud?](#)

Kuidas mõjub kiirus tervisele?

Põld, Merit harjuelu.ee 2023 [Kuidas mõjub kiirus tervisele?](#)

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](#)

Machinery utilization monitoring and pause identification prototype model design

Aruväli, Tanel; Serg, Risto; Otto, Tauno Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 256-261 : ill

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

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

Measurements of radiofrequency radiation with a Body-Borne exposimeter in Swedish schools with Wi-Fi

Hedendahl, Lena; Carlberg, Michael; **Koppel, Tarmo**; Hardell, Lennart Frontiers in public health 2017 / p. 1-14 : ill
<https://doi.org/10.3389/fpubh.2017.00279>

Middleware for wireless sensor networks

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

Miniaturized wireless monitor for long-term monitoring of newborns

Leier, Mairo; Jervan, Gert 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. 193-196 : ill

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>

Monitoring of energy efficiency in industrial pneumatic machines

Parik, Ellen; Otto, Tauno Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium : Intelligent Manufacturing & Automation 2012 / p. 0985-0988 : ill [CD-ROM]
https://www.researchgate.net/publication/283474506_Monitoring_of_energy_efficiency_in_industrial_pneumatic_machines

Monitoring system framework and architecture over supply chain

Aruväli, Tanel; Serg, Risto; Körbe Kaare, Kati; Otto, Tauno Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium : Intelligent Manufacturing & Automation 2012 / 1, p. 0661-0666 : ill [CD-ROM]
https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2012/155.pdf

Multi-modal sensor data fusion in city environment monitoring projects SMENETE and IMO

Kaugerand, Jaanus; Ehala, Johannes; Riid, Andri; Preden, Jürjo-Sören; **Udal, Andres** COST Action CA16101 MULTI-modal : Imaging of FOREnsic SciEnce Evidence tools for Forensic Science : Grant Period 2 Conference, 5-8 November 2018, Dubrovnik, Croatia. Forensic Imaging Techniques - an exploration of their potential as standalone tools and within a multimodal approach : book of abstracts 2018 / p. 36-37 : ill

Multivariable optimal control of wireless power transfer systems with series-parallel compensation

Pakhaliuk, Bohdan; **Husev, Oleksandr**; Shevchenko, Viktor; Zakis, Janis; Stepins, Deniss 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2019 / 5 p
<https://doi.org/10.1109/RTUCON48111.2019.8982314>

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 (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](#)

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/IJDSST.2019070106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Network coding for energy efficient transmission in Wireless Body Area Networks

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

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

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

Optimal rotating receiver angles estimation for multicoil dynamic wireless power transfer

Pakhaliuk, Bohdan; Shevchenko, Viktor; Mućko, Jan; Husev, Oleksandr; Lukianov, Mykola; Kołodziejek, Piotr; Strzelecka, Natalia; Strzelecki, Ryszard Energies 2021 / art. 6144, 15 p. : ill <https://doi.org/10.3390/en14196144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Optimized acoustic localization with SRP-PHAT for monitoring in distributed sensor networks

Astapov, Sergei; Berdnikova, Julia; Preden, Jürgo-Sören International journal of electronics and telecommunications 2013 / p. 383-390 : ill

Palun töötavat wifit [Võrguväljaanne]

aripaev.ee 2021 "[Palun töötavat wifit](#)"

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 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>

Performing acoustic localization in a network of embedded smart sensors

Astapov, Sergei; Ehala, Johannes; Preden, Jürgo-Sören International journal of microelectronics and computer science 2015 / p. 86-95 : ill

Predictive machine learning analysis for reliable D2D discovery in 6G critical communications

Masood, Ali; Alam, Muhammad Mahtab; Le Moullec, Yannick 2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC) 2023 / p. 58-63 <https://doi.org/10.1109/FMEC59375.2023.10306113>

QoS-MAN : a novel QoS mapping algorithm for TSN-5G flows

Satka, Zenepe; Ashjaei, Mohammad; Fotouhi, Hossein; Daneshtalab, Masoud; Sjodin, Mikael; Mubeen, Saad 2022 IEEE 28th International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA) 2022 / p. 220-227
<https://doi.org/10.1109/RTCSA55878.2022.00030>

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 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>

Radiofrequency electromagnetic fields from mobile devices used for learning and working

Koppel, Tarmo; Ahonen, Mikko Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 65-70 : ill

Reducing exposure to radiofrequency electromagnetic fields from wireless networking with laptop computers [Electronic resource]

Koppel, Tarmo; Ahonen, Mikko; Vilcane, Inese SCEE 2014 : Scientific Conference on Economics and Entrepreneurship : 55th International Riga Technical University conference : Latvia, Riga, 14-17 October 2014 / [2] p. [CD-ROM]

Reducing exposure to radiofrequency electromagnetic fields from wireless networking with portable computers

Koppel, Tarmo; Vilcane, Inese; Ahonen, Mikko Scientific journal of Riga Technical University. Safety of technogenic environment 2014 / p. 9-13 : ill

Reward function evaluation in a reinforcement learning approach for energy management [Online resource]

Rioual, Yohann; **Le Moullec, Yannick;** Laurent, Johann; **Khan, Muhidul Islam;** Diguët, Jean-Philippe BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2019 / 4 p <https://doi.org/10.1109/BEC.2018.8600992>

Review of wireless technologies for the Smart Grid

Ruban, Jelena 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 50-53 : ill

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

Self-organization in ad hoc wireless networks

Kirt, Toomas; **Anier, Aivo** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 149-152 : ill

SIGCOMM '15 : proceedings of the 2015 ACM Conference on Special Interest Group on Data Communication : August 17-21, 2015, London, United Kingdom

2015 <http://dl.acm.org/citation.cfm?id=2785956>

Simplified acoustic localization by linear arrays for wireless sensor networks

Astapov, Sergei; **Preden, Jürjo-Sören;** **Berdnikova, Julia** 2013 18th International Conference on Digital Signal Processing (DSP) : 1-3 July 2013, Nomikos Conference Centre, Santorini, Greece 2013 / [6] p. : ill

Situation awareness via Internet of things and in-network data processing

Ehala, Johannes; **Kaugerand, Jaanus;** **Pahtma, Raido;** **Astapov, Sergei;** **Riid, Andri;** **Tomson, Timo;** **Preden, Jürjo-Sören;** **Mõtus, Leo** International journal of distributed sensor networks 2017 / p. 1-21 : ill <https://doi.org/10.1177/1550147716686578>

Smart dust applications in production environment

Aruväli, Tanel; **Serg, Risto;** **Preden, Jürjo-Sören;** **Otto, Tauno** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 572-577 : ill

Smart dust based modular laboratory kit for monitoring workshop machinery

Sarkans, Martinš; **Preden, Jürjo-Sören;** **Otto, Tauno;** **Reinson, Taavi** 8th International Workshop on Research and Education in Mechatronics 2007 : 14-15 June 2007, Tallinn, Estonia 2007 / p. 299-304 : ill

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](#)

Solving big data : distributing computation among smart devices

Preden, Jürjo-Sören; Pahtma, Raido; Tomson, Timo; Mõtus, Leo Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014 2014 / p. 245-258 : ill

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>

A system of systems solution for perimeter control : combining unmanned aerial system with unattended ground sensor network

Kaugerand, Jaanus Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 57-60 : ill

A system of systems solution for perimeter control : combining unmanned aerial system with unattended ground sensor network

Kaugerand, Jaanus; Preden, Jürjo-Sören; Suurjaak, Erki; Astapov, Sergei; Mõtus, Leo; Pahtma, Raido 9th Annual IEEE International Systems Conference : April 13-16, 2015, Vancouver, British Columbia, Canada : proceedings 2015 / p. 317-323 : ill
<https://doi.org/10.1109/SYSCON.2015.7116770>

TalTechi õppejõud selgitab: milliseid muutusi 5G endaga kaasa toob? [Võrguväljaanne]

digi.geenius.ee 2021 ["TalTechi õppejõud selgitab: milliseid muutusi 5G endaga kaasa toob?"](#)

Tasuta WiFi leviala laienes

Kruus, Margus Mente et Manu 2003 / 13. mai, lk. 3 https://www.ester.ee/record=b1242496*est

Teenuse kvaliteet WLAN-võrkudes

Kulmar, Marika Elektroonika 2004 : XI rahvusvahelise telekommunikatsioonipäeva materjalid 2004 / lk. 138-150 : ill

Tehnikaülikoolis levib traadita internet : [teenust pakutakse esimese ülikoolina Eestis : TTÜ infojuhi Gunnar Valge kommentaariga]

Valge, Gunnar Eesti Päevaleht 2002 / 29. aug., lk. 13 <https://epl.delfi.ee/artikkel/50932292/tehnikaulikoolis-levib-traadita-internet>

Tehnikaülikoolis traadita internetiühendus : [kommenteerivad TTÜ infotehnoloogia juht Gunnar Valge ja Unineti turundusdirektor Hardi Kinnas]

Valge, Gunnar; Kinnas, Hardi Mente et Manu 2002 / 3. sept., lk. 3 : ill https://www.ester.ee/record=b1242496*est

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>

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](#)

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](#)

Traadita lokaalvõrk : laboratoorse töö juhend

1999 http://www.ester.ee/record=b1317737*est

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

TTÜs traadivaba Internet : [teenust pakutakse esimese ülikoolina Eestis : lühisõnum]

Studioosus 2002 / september, lk. 3

Tööle hakkas Eesti esimene 5G võrk

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](#)

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, USA27 - 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>

Using an external antenna to reduce exposure to electromagnetic fields from wireless modems in motor-cars [Electronic resource]

Ahonen, Mikko; **Koppel, Tarmo** SCEE 2014 : Scientific Conference on Economics and Entrepreneurship : 55th International Riga Technical University conference : Latvia, Riga, 14-17 October 2014 / [CD-ROM]

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](#)

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>

Vertical integration model with Profinet

Ruban, Olga 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 166-169 : ill

Vertical integration with Profinet

Ruban, Olga; Razvarov, Dmitri Innovaatilised lahendused ja säästvad tehnoloogiad : konverents 2010 2010 / p. 87-93 : ill