

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

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

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**Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-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 elektrotehnika = 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 / 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>

### **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>

### **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](#)

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

**Ashraf, Kanwal; Le Moullec, Yannick; Parady, 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](#)

### **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; Parady, 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](#)

### **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, Jürjo-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 <https://doi.org/10.3390/technologies5030043> [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**; 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> [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**; 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 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 2019 / p. 115 [http://www.rtcse.org/RTCSE\\_2019.pdf](http://www.rtcse.org/RTCSE_2019.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 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>

#### **Control of autonomous mobile robots using wireless network and MATLAB**

**Vu, Trieu Minh; Tamre, Mart; Hudjakov, Robert; Shvarts, Dmitry; Pölder, Ahti; Hiimaa, Mairo; 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>

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

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

#### **Data communication services in mobile communication environment**

**Kuningas, Tarmo** Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / p. 87-94 : ill [https://www.ester.ee/record=b1399956\\*est](https://www.ester.ee/record=b1399956*est)

#### **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>

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

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

### **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 <https://doi.org/10.1166/sl.2015.3594> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **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**

Riispapp, 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 leevendamine : referaat**

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

### **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](#)

### **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 at Scopus](#)

### **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 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; 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](#)

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

**Exploitability of Maritime Fleet-Based 5G Network Extension**

**Pilvik, Riivo; Jairus, Tanel; Sadam, Arvi; Nõmmela, Kaidi; Kõrbe Kaare, Kati**; Scholliers, Johan Electronics 2025 / art. 2210  
<https://doi.org/10.3390/electronics14112210>

**FPGA based system for video compression and transmission over bluetooth**

**Gorev, Maksim; Ellervee, Peeter** 53rd IEEE International Midwest Symposium on Circuits and Systems : Seattle, Washington, USA, August 1-4, 2010 : proceedings 2010 / p. 367-370 : ill <https://ieeexplore.ieee.org/document/5548853>

**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

**Generalized physical models for wireless channel and their modern affords**

**Raja, Aimur** Proc.8th International Conference ELECTRONICS 2004 : Kaunas 2004 / p. ?

**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> [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](#)

**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; Pölder, Ahti; Hiiemaa, Mairo; 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>

**Innovative RFDAC concepts for digital multi-mode transmitter in cellular applications**

**Fulde, Michael; Kuttner, Franz; Thaller, Edwin; Ponton, Davide; Kampus, Vahur; Gruenberger, Simon; Habibovic, Harun; Santner, Andreas; Duller, Christoph; Krassnitzer, Christian; Babin, Gernot; Knoblinger, Gerhard** Proceedings of the 2013 9th Conference on Ph.D. Research in Microelectronics and Electronics (PRIME), 24-27 June 2013 2013 / p. 9-10  
<http://doi.org/10.1109/PRIME.2013.6603139>

**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? [Võrguväljaanne]**

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

**Kuidas mõjub kiirus tervisele?**

Pöld, 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 WOS](#) [Article at WOS](#)

**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** 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>

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

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

**Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-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

**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> [https://www.ester.ee/record=b5056543\\*est](https://www.ester.ee/record=b5056543*est)

**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](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; Kõrbe 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](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

**Multi-purpose receiver chain for wifi applications**

**Di Giandomenico, Antonio; Kampus, Vahur; Walter, Sergio; Kahl, Alexander; Trautmann, Steffen** 2021

<https://patents.justia.com/patent/20190288721#description>

**Multi-purpose receiver chain for wifi applications : [United States Patent]**

**Di Giandomenico, Antonio; Kampus, Vahur; Walter, Sergio; Kahl, Alexander; Trautmann, Steffen** 2023

<https://pubchem.ncbi.nlm.nih.gov/patent/US-11716102-B2>

<https://patentimages.storage.googleapis.com/df/10/03/e9a1aa21b446c5/US11716102.pdf>

**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](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> [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**

**Mürsepp, 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>

### **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](#)

### **Optimal rotating receiver angles estimation for multicoil dynamic wireless power transfer**

**Pakhaliuk, Bohdan; Shevchenko, Viktor; Mučko, 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](#)

### **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](#)

### **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, Jürjo-Sören** International journal of electronics and telecommunications 2013 / p. 383-390 : ill <https://doi.org/10.2478/eletel-2013-0047> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Palun töötavat wifiit [Võrguväljaanne]**

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

### **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, Jürjo-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](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/il/?7677> [https://www.ester.ee/record=b4677631\\*est](https://www.ester.ee/record=b4677631*est)

### **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 <https://doi.org/10.5755/j01.eee.19.6.4565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reconfigurable intelligent surfaces in 6G radio localization: A survey of recent developments, opportunities, and challenges**

**Umer, Anum; Mürsepp, Ivo; Alam, Muhammad Mahtab**; Wymeersch, Henk IEEE Communications Surveys & Tutorials 2025 / 36 p <http://doi.org/10.1109/COMST.2025.3536517>

### **Reconfigurable intelligent surfaces in dynamic rich scattering environments : BiLSTM-based optimization for accurate user localization**

**Umer, Anum; Mürsepp, Ivo; Alam, Muhammad Mahtab** 2024 3rd International Conference on 6G Networking (6GNet) 2024 / p. 122-126 <https://doi.org/10.1109/6GNet63182.2024.10765779>

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

**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](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 <https://doi.org/10.3233/978-1-61499-458-9-245> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A statistical model for RF wireless channels**

**Raja, Aimur** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 323-324 : 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://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>

**TalTech alustas koostööd India telekomiga. "Saame arendada uusi võimekusi"**

Kald, Indrek ituudised.ee 2024 [TalTech alustas koostööd India telekomiga. "Saame arendada uusi võimekusi"](#)

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

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

**Teenuse kvaliteet WLAN-võrkudes**

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

[https://www.ester.ee/record=b1910557\\*est](https://www.ester.ee/record=b1910557*est)

**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](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>

**13.2 A digital multimode polar transmitter supporting 40MHz LTE Carrier Aggregation in 28nm CMOS**

**Fulde, Michael**; **Belitzer, Alexander**; **Boos, Zdravko**; **Bruennert, Michael**; **Fritzin, Jonas**; **Geltinger, Hans**; **Groinig, Marcus**; **Gruber, Daniel**; **Gruenberger, Simon**; **Hartig, Thomas**; **Kampus, Vahur** 2017 IEEE International Solid-State Circuits Conference (ISSCC), San Francisco, CA, USA, 2017 2017 / p. 218-220 : ill <https://doi.org/10.1109/ISSCC.2017.7870339>

**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 estimation with regard to airtime consumption unfairness in mixed data rate Wi-Fi networks**

Abdul-Hadi, Alaa Mohammed; Tarasyuk, Olga; Gorbenko, Anatoliy; Kharchenko, Vyacheslav; **Hollstein, Thomas** Communications - Scientific Letters of the University of Žilina 2014 / p. 84-89 : ill <https://komunikacie.uniza.sk/pdfs/csl/2014/01/15.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

**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>

**Traadita lokaalvõrk : laboratoorse töö juhend**

1999 [http://www.ester.ee/record=b1317737\\*est](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**

Horisont 2019 / lk. 5 [http://www.ester.ee/record=b1072243\\*est](http://www.ester.ee/record=b1072243*est)

**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, 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>

**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]

**Utilization of received signal strength indication by embedded nodes**

**Pahtma, Raido; Preden, Jürjo-Sören; Agar, Romi; Pikk, Priit** Elektronika ir elektrotehnika = Electronics and electrical engineering 2009 / 5, p. 39-42 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/10177>

**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

**Yannick Le Moullec. Combines electronics and health applications**

**Le Moullec, Yannick** Estonian Centre of Excellence in ICT Research 2021 / p. 21-25 : ill <http://www.digar.ee/id/nlib-digar:634779>  
[https://www.ester.ee/record=b5456158\\*est](https://www.ester.ee/record=b5456158*est)