

### **An IoT course program to foster the adoption of IoT driven food and agriculture in Sub-Saharan Africa (SSA)**

Kuaban, Godlove Suila; Nowak, Mateusz; Czekalski, Piotr; Tokarz, Krzysztof; Tangka, ulius Kewir; Siggursson, Kjartan; Nikitenko, Agris; Berkolds, Karlis; **Sell, Raivo** 2022 International Conference on Electrical, Computer and Energy Technologies (ICECET) 2022 / p. 1-7 <https://doi.org/10.1109/ICECET55527.2022.9872825>

### **An IoT-based approach to digitalize a manufacturing system**

**Mahmood, Kashif; Otto, Tauno; Karaulova, Tatjana; Ševtšenko, Eduard** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 257-261 : ill [http://ise.elnet.ee/record=b2950215~S2\\*est](http://ise.elnet.ee/record=b2950215~S2*est)

### **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](#)

### **Application of artificial intelligence and machine learning for BIM : review**

Bassir, David; Lodge, Hugo; Chang, Haochen; **Majak, Jüri**; Chen, Gonfa International journal for simulation and multidisciplinary design optimization 2023 / art. 5 <https://doi.org/10.1051/smdo/2023005> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Application of e-governance solutions in industry 4.0 : The case of e-invoicing**

**Pappel, Ingrid; Kosenkov, Oleksandr** Abstracts of Papers Presented at the 18th European Conference on Digital Government ECDG 2018 : Hosted By University of Santiago de Compostela, Spain, 25 - 26 October 2018 2018 / p. 41-42 <https://www.academic-conferences.org/download/21774/>

### **Application of e-governance solutions in industry 4.0 : The case of e-invoicing**

**Pappel, Ingrid; Kosenkov, Oleksandr** Proceedings of the 18th European Conference on Digital Government (ECDG2018) : University of Santiago de Compostela, Spain, 25-26 October 2018 2018 / p. 321–324 <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059249500&partnerID=40&md5=1f13e4155021d0e173f1b81582022655>

### **Arupuruarendaja Jürjo Preden: tajumatud arvutid meie ümber muudavad maailma paremaks**

Preden, Jürjo-Sören *Mente et Manu* 2021 / lk. 14-19 : fot <Mente et Manu 1/2021> [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Asjade Internet teeb TTÜ kampupest digilinnaku**

**Leier, Mairo** *Mente et Manu* 2018 / lk. 40-41 : fot [https://ttu.ee/public/m/mente-et-manu/MM\\_02\\_2018/mobile/index.html#p=3](https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=3) <http://dea.digar.ee/publication/AKmenteetmanu> [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) [https://artiklid.elnet.ee/record=b2862659\\*est](https://artiklid.elnet.ee/record=b2862659*est)

### **Asjade interneti levikule töötavad anda hoogu erilised päikesepaneelid**

**Sibinski, Maciej** *novaator.err.ee* 2024 [Asjade interneti levikule töötavad anda hoogu erilised päikesepaneelid](#)

### **Augmented coaching ecosystem for non-obtrusive adaptive personalized elderly care on the basis of cloud-fog-dew computing paradigm [Electronic resource]**

Gordienko, Yuri; Stirenko, S.; Alienin, O.; **Jervan, Gert** 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), May 22 - 26, 2017, Opatija, Croatia : proceedings 2017 / p. 359-364 : ill. [CD-ROM] <https://doi.org/10.23919/MIPRO.2017.7973449>

### **Automated environmental compliance monitoring of rivers with IoT and open government data**

**Miasayedava, Lizaveta**; McBride, Keegan David Braun; **Tuhtan, Jeffrey Andrew** *Journal of environmental management* 2022 / art. 114283, 10 p. : ill <https://doi.org/10.1016/j.jenvman.2021.114283> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Autonomous mobile robots for production logistics: a process optimization model modification**

**Raamets, Tõnis; Majak, Jüri; Karjust, Kristo; Mahmood, Kashif; Hermaste, Aigar** Proceedings of the Estonian Academy of Sciences 2024 / p. 134-141 : ill <https://doi.org/10.3176/proc.2024.2.06>

### **Blockchain-based applications in shipping and port management : a literature review towards defining key conceptual frameworks**

Tsiulin, Sergey; Hegner Reinau, Kristian; **Hilmola, Olli-Pekka Kristian**; Goryaev, Nikolay; Karam, Ahmed *International journal of productivity and performance management* 2020 / p. 201-224 <https://doi.org/10.1108/RIBS-04-2019-0051>

### **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](#)

### **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](#)

### **A comparative framework for cyber threat modelling : case of healthcare and industrial control systems**

Balogun, Taofeek Mobolarinwa; **Bahsi, Hayret**din; Keskin, Omer F.; Tatar, Unal International Journal of Critical Infrastructures 2021 / 1 p <https://doi.org/10.1504/IJCIS.2024.10046187>

### **A comparative framework for cyber threat modelling: case of healthcare and industrial control systems**

Balogun, Taofeek Mobolarinwa; **Bahsi, Hayret**din; Keskin, Omer F.; Tatar, Unal International Journal of Critical Infrastructures 2023 / p. 405-431 <https://doi.org/10.1504/IJCIS.2023.133282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A comprehensive survey on digital twin for future networks and emerging Internet of Things industry**

Hakiri, Akram; Gokhale, Aniruddha; **Ben Yahia, Sadok**; Mellouli, Nedra Computer Networks 2024 / art. 110350 <https://doi.org/10.1016/j.comnet.2024.110350> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Condition monitoring and fault detection for electrical machines using IOT**

**Raja, Hadi Ashraf; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants** Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 [https://doi.org/10.1007/978-3-031-18458-1\\_12](https://doi.org/10.1007/978-3-031-18458-1_12) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Condition monitoring of electrical machines and its relation to industrial internet**

**Belahcen, Anouar**; Gyftakis, Konstantinos N.; Martinez, Javier; Climente-Alarcon, Vicente; **Vaimann, Toomas** 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 233-241 : ill <http://dx.doi.org/10.1109/WEMDCD.2015.7194535>

### **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>

### **Cost-efficient real-time condition monitoring and fault diagnostics system for BLDC motor using IoT and Machine learning**

**Raja, Hadi Ashraf; Raval, Hardik; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : conference proceedings 2022 / 4 p. <https://doi.org/10.1109/Diagnostika55131.2022.9905102>

### **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>

### **DADS : decentralized attestation for device swarms**

Wedaj, Samuel; **Paul, Kolin**; Ribeiro, Vinay J. ACM Transactions on Privacy and Security 2019 / Art. 19 <https://doi.org/10.1145/3325822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Data analysis of building sensors for efficient energy management and future trends in the EU**

**Crasta, Cletus J.; Agabus, Hannes** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818242>

### **A decentralized distribution market mechanism considering renewable generation units with zero marginal costs**

Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan**; Chen, Guo; Qiao, Yichen IEEE Transactions on Smart Grid 2020 / p. 1724 - 1736 <https://doi.org/10.1109/TSG.2019.2942616> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Decoding the smart city**

Vainio, Teija; Hodson, Elise; Sayún, Michel Nader; **Soe, Ralf-Martin** Interaction design and architecture(s) 2021 / p. 59-62 <https://doi.org/10.55612/s-5002-050-002pfs> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development and utilization of synthetic signals for fault diagnostics of electrical machines**

**Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants** IEEE journal of emerging and selected topics in industrial electronics 2024 / 9 p <https://doi.org/10.1109/JESTIE.2024.3395650>

### **Development of cyber-physical production systems based on modelling technologies**

**Mahmood, Kashif; Karaulova, Tatjana; Otto, Tauno; Ševtšenko, Eduard** Proceedings of the Estonian Academy of Sciences 2019 / p. 348-355 : ill [http://www.kirj.ee/32601/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/32601/?tpl=1061&c_tpl=1064) <https://doi.org/10.3176/proc.2019.4.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of process optimization model for autonomous mobile robot used in production logistics**

**Majak, Jüri; Karjust, Kristo; Mahmood, Kashif; Hermaste, Aigar; Raamets, Tõnis** AIP conference proceedings 2024 / art. 020008 <https://doi.org/10.1063/5.0189299>

**Developments and applications of IoT-based sensors for wastewater and drainage systems : editorial**

Sitzenfrei, Robert; **Annus, Ivar**; Langeveld, Jeroen; Rieckermann, Jörg; Rauch, Wolfgang Water science and technology Water science & technology 2024 / p. 3-5 <https://doi.org/10.2166/wst.2024.058>

**Digital twins for designing energy management systems for microgrids: Implementation example based on TalTech Campulse project**

**Korõtko, Tarmo; Zahraoui, Younes; Rosin, Argo; Agabus, Hannes** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227475>

**Digiteerimine, plokiahel ja asjade internet mereveos**

**Tapaninen, Ulla Pirita; Heering, Dan** Meremees : Eesti merendusajakiri = Estonian maritime magazine. Veeteede Teataja 2021 / lk. 22-23 : ill [https://www.ester.ee/record=b4646644\\*est](https://www.ester.ee/record=b4646644*est)

**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](#)

**Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Vol. 2**

2021 <https://link.springer.com/book/10.1007%2F978-3-030-68201-9> <https://doi.org/10.1007/978-3-030-68201-9>

**Eesti teadlased töötasid välja meetodi energiamärgise koheseks määramiseks**

director.ee 2023 [Eesti teadlased töötasid välja meetodi energiamärgise koheseks määramiseks](#) [Eestis töötati välja uudne energiamärgise määramise lahendus](#) [Eestis töötati välja uudne energiamärgise määramise lahendus](#)

**Eestis töötati välja uudne energiamärgise määramise lahendus**

Ehitaja 2023 / lk. 34 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est) [https://artiklid.elnet.ee/record=b2904595\\*est](https://artiklid.elnet.ee/record=b2904595*est)

**Elektroonikainsener Endrik Salak: minu töö on nutikate lahenduste väljatöötamine**

goodnews.ee 2024 [Elektroonikainsener Endrik Salak: minu töö on nutikate lahenduste väljatöötamine](#)

**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 / 14 p <https://doi.org/10.1109/ACCESS.2024.3478733>

**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; Päränd, 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](#)

**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-aware task scheduling and offloading using deep reinforcement learning in SDN-enabled IoT network**

Sellami, Bassem; Hakiri, Akram; **Ben Yahia, Sadok**; Berthou, Pascal Computer networks 2022 / art. 108957, 12 p. : ill <https://doi.org/10.1016/j.comnet.2022.108957> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](#)

**Enhancing IoT botnet attack detection in SOCs with an explainable active learning framework**

**Kalakoti, Rajesh; Nömm, Sven; Bahsi, Hayretdin** 2024 IEEE World AI IoT Congress (AlloT) 2024 / p. 265 - 272 <https://doi.org/10.1109/AlloT61789.2024.10578957> [Article at Scopus](#) [Article at WOS](#)

**Ettevõtted saavad tooteid ja teenuseid testida TalTechi asjade interneti ja 5G platvormil**

Mente et Manu 2020 / lk. 11 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

**Evaluating RuleCore as event processing network model**

**Astrova, Irina**; Koschel, Arne; Kobert, Sebastian Proceedings of the 15th International Conference on Web Information Systems and

Technologies, WEBIST 2019, Vienna, Austria, September 18-20, 2019. Vol. 1 2019 / p. 297–300 : ill  
<https://doi.org/10.5220/0008192302970300>

### **Evaluation of 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>

### **Explainable federated learning for Botnet Detection in IoT networks**

**Kalakoti, Rajesh; Bahsi, Hayretidin; Nömm, Sven** Proceedings of the 2024 IEEE International Conference on Cyber Security and Resilience (CSR), September 2-4, 2024, London, UK 2024 / p. 22-29 <https://doi.org/10.1109/CSR61664.2024.10679348> [Article at Scopus](#) [Article at WOS](#)

### **FOMCONpy: Fractional-order modelling and control library for python**

**Onyedi, Tobechukwu; Tepijakov, Aleksei; Petlenkov, Eduard** 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 / p. 239-245 <http://doi.org/10.1109/TSP49548.2020.9163581>

### **Formal methods based security for cloud-based manufacturing cyber physical system**

Muniasamy, Kandasamy; Srinivasan, Seshadhri; **Vain, Jüri**; Sethumadhavan, M. IFAC-PapersOnLine 2019 / p. 1198-1203  
<https://doi.org/10.1016/j.ifacol.2019.11.361> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **From private to public governance : The case for reconfiguring energy systems as a commons**

**Giotitsas, Christos**; Nardelli, Pedro H.J.; **Kostakis, Vasileios**; Narayanan, Arun Energy research & social science 2020 / art. 101737 ; 7 p <https://doi.org/10.1016/j.erss.2020.101737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Going digital, staying secure : cyber ERM activities in a post-pandemic setup**

**Carlo, Antonio**; Casamassima, Francesca IAC 2022 congress proceedings 2022 / art. 70417  
<https://iafastro.directory/iac/paper/id/70417/summary/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **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>

### **Hans Michael Krause asjade internetist : inimene on tööstuses ikka kõige tähtsam**

Einama, Kaido Mente et Manu 2017 / lk. 44-47 [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) [https://artiklid.elnet.ee/record=b2830878\\*est](https://artiklid.elnet.ee/record=b2830878*est)

### **Hruštšovkast smartovkaks ja digikaksikud, ehk kuidas teha linn targemaks? [Võrguväljaanne]**

Merivoo-Parro, Maarja novaator.err.ee 2021 ["Hruštšovkast smartovkaks ja digikaksikud, ehk kuidas teha linn targemaks?"](https://merivoo.err.ee/2021/09/14/hrustšovkast-smartovkaks-ja-digikaksikud-ehk-kuidas-teha-linn-targemaks/)

### **Hybrid feature selection models for machine learning based botnet detection in IoT networks**

**Guerra Manzanares, Alejandro; Bahsi, Hayretidin; Nömm, Sven** 2019 International Conference on Cyberworlds : CW 2019 : 2-4 October 2019, Kyoto, Japan : proceedings 2019 / p. 324-327 : ill <https://doi.org/10.1109/CW.2019.00059>

### **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>

### **Improved load planning of ro-ro vessels by adopting blockchain and internet-of-things**

Henesey, Lawrence; Lizneva, Yulia; **Philipp, Robert; Meyer, Christopher**; Gerlitz, Laima Proceedings of the 22nd International Conference on Harbor, Maritime and Multimodal Logistic Modeling & Simulation (HMS 2020) : Online, September 16-18, 2020 2020 / p. 58-65 <https://doi.org/10.46354/i3m.2020.hms.009>

### **Improving IoT security with explainable AI : quantitative evaluation of explainability for IoT botnet detection**

**Kalakoti, Rajesh; Bahsi, Hayretidin; Nömm, Sven** IEEE Internet of Things Journal 2024 / p. 18237 - 18254  
<https://doi.org/10.1109/IJOT.2024.3360626> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **In-depth feature selection for the statistical machine learning-based botnet detection in IoT networks**

**Kalakoti, Rajesh; Nömm, Sven; Bahsi, Hayretidin** IEEE Access 2022 / p. 94518-94535  
<https://doi.org/10.1109/ACCESS.2022.3204001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Integrating smart energy management system with internet of things and cloud computing for efficient demand side management in smart grids**

Saleem, M. Usman; Shakir, Mustafa; Usman, M. Rehan; Bajwa, M. Hamza Tahir; **Shabbir, Noman; Shams Ghahfarokhi, Payam; Daniel, Kamran** Energies 2023 / art. 4835 : ill <https://doi.org/10.3390/en16124835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal](#)

### **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>

### **Internet of Things network infrastructure for the educational purpose**

Tokarz, Krzysztof; Czekalski, Piotr; Drabik, Gabriel; Paduch, Jaroslaw; Distefano, Salvatore; Di Pietro, Riccardo; Merlino, Giovanni; Scaffidi, Carlo; **Sell, Raivo** 2020 IEEE Frontiers in Education Conference (FIE) 2020 <https://doi.org/10.1109/FIE44824.2020.9274040>  
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Introduction to the IoT : Practical project [Electronic resource]**

**Sell, Raivo;** Puks, Rim; Kingsepp, Mallor 2019 <http://iot-open.eu/download/iot-open-eu-introduction-to-the-iot-practical-projects-in-english/>

### **Introduction to the IOT [Electronic resource]**

**Sell, Raivo;** Puks, Rim; Kingsepp, Mallor 2019

### **IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks**

**Raja, Hadi Ashraf** 2023 <https://doi.org/10.23658/taltech.20/2023> <https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcda536aba5>  
[https://www.ester.ee/record=b5558656\\*est](https://www.ester.ee/record=b5558656*est)

### **IoT based tools for data acquisition and monitoring of electrical machines**

**Raja, Hadi Ashraf** 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 85-86 : ill [https://www.ester.ee/record=b5457278\\*est](https://www.ester.ee/record=b5457278*est)

### **IoT based tools for data acquisition in electrical machines and robotics**

**Raja, Hadi Ashraf; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Belahcen, Anouar** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 737-742 : ill <https://doi.org/10.1109/PEMC48073.2021.9432553>

### **IoT-based senses for virtual enterprises**

Mahmoodpour, Mehdi; **Mahmood, Kashif;** Lobov, Andrei IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 4181-4186 : ill <http://doi.org/10.1109/IECON.2018.8592796>

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

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

### **Kas sa oled kodus üksi?**

**Härmat, Karin** Mente et Manu 2019 / lk. 22-25 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est) [https://www.ttu.ee/public/m/mente-et-manu/MM\\_01\\_2019/mobile/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_01_2019/mobile/index.html)

### **Küberturvalisuse tippeksper Urmast Ruuto: "Küberrünnakut saab toime panna ka kaugloetavate veemõõtjatega"**

Ruuto, Urmast [jarvateataja.postimees.ee](http://jarvateataja.postimees.ee) 2023 [Küberturvalisuse tippeksper Urmast Ruuto: "Küberrünnakut saab toime panna ka kaugloetavate veemõõtjatega"](#)

### **A lightweight Mmessage authentication code for virtual work in future smart cities**

Pindar, Zahraddeen A.; Fayomi, Joshua O.; **Waziri, Nazir H.;** Abdulhamid, Bala M.; Jamel, Sapiee 2020 IEEE European Technology and Engineering Management Summit (E-TEMS), 5-7 March 2020, Dortmund University of Applied Sciences and Art 2020 / 5 p <https://doi.org/10.1109/E-TEMS46250.2020.9111859>

### **Linked data connections with emerging information technologies: A survey**

**Haav, Hele-Mai** International journal of computer science and applications 2014 / p. 21-44 : ill [https://www.researchgate.net/publication/272375984\\_Linked\\_data\\_connections\\_with\\_emerging\\_information\\_technologies\\_A\\_survey](https://www.researchgate.net/publication/272375984_Linked_data_connections_with_emerging_information_technologies_A_survey) [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

### **Machine learning-based detection and characterization of evolving threats in mobile and IoT Systems = Masinõppepõhine arenevate ohtude tuvastamine ning kirjeldamine mobiilseadmete ja värvõrkude jaoks**

**Guerra Manzanares, Alejandro** 2022 <https://doi.org/10.23658/taltech.54/2022> <https://digikogu.taltech.ee/et/Item/f56ae778-e5a5-4147->

[a8e4-4833e08fa789 https://www.ester.ee/record=b5511898\\*est](https://www.ester.ee/record=b5511898*est)

### **Mapping cyber attacks on the internet of medical things : a taxonomic review**

Kondeti, Venkatesh; **Bahsi, Hayret** 2024 19th Annual System of Systems Engineering Conference (SoSE) 2024 / p. 84 - 91  
<https://doi.org/10.1109/SOSE62659.2024.10620925> [Article at Scopus](#) [Article at WOS](#)

### **MedBloT : generation of an IoT Botnet Dataset in a medium-sized IoT network**

**Guerra Manzanares, Alejandro; Medina-Galindo, Jorge; Bahsi, Hayret**; **Nömm, Sven** Proceedings of the 6th International Conference on Information Systems Security and Privacy, ICISSP : February 25-27, 2020, La Valletta, Malta. Vol. 1 2020 / p. 207-218 : ill <https://doi.org/10.5220/0009187802070218>

### **Mis meist saab - elu pärast «suurt pauku»**

postimees.ee 2023 [Mis meist saab - elu pärast «suurt pauku»](#)

### **Model based Test framework for communications-critical internet of things systems**

**Pal, Deepak; Vain, Jüri** Databases and information systems X : selected papers from the thirteenth International Baltic Conference, DB&IS 2018 2019 / p. 79-94 [https://www.ester.ee/record=b5203991\\*est](https://www.ester.ee/record=b5203991*est) <https://doi.org/10.3233/978-1-61499-941-6-79> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A model-based approach for design and verification of Industrial Internet of Things**

Muthukumar, Natarajan; Srinivasan, Seshadhri; Ramkumar, Kannan; **Pal, Deepak; Vain, Jüri**; Ramaswamy, Srini Future generation computer systems 2019 / p. 354-363 : ill <https://doi.org/10.1016/j.future.2018.12.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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 and control of smart urban drainage systems using NB-IoT cellular sensor networks**

**Roosipuu, Priit; Annus, Ivar; Kuusik, Alar; Kändler, Nils; Alam, Muhammad Mahtab** Water science & technology Water science and technology 2023 / p. 339-354 <https://doi.org/10.2166/wst.2023.222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Moving average filter block implementation using USP-Awadhoot divider**

**Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants**; Patankar, Sunil 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737938>

### **Narrowband internet of things (NB-IoT) : from physical (PHY) and media access control (MAC) layers perspectives**

**Mwakwata, Collins Burton; Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven; Mumtaz, Shahid** Sensors 2019 / art. 2613, 34 p.: ill <https://doi.org/10.3390/s19112613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Narrowband Internet of Things (NB-IoT) : from physical (PHY) and Media Access Control (MAC) layers perspectives : [an article in collection]**

**Mwakwata, Collins Burton; Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven; Mumtaz, Shahid** Internet of things and sensors networks in 5G wireless communications 2020 / p. 39-72 : ill <https://doi.org/10.3390/books978-3-03928-149-7> <https://doi.org/10.3390/s19112613>

### **Narrowband internet of things (NB-IoT) : from radio network coverage to device energy consumption modeling and energy-efficient application = Kitsaribaline asjade internet (NB-IoT) : raadiovõrgu katvusest seadme energiatarbe modelleerimise ja energiasäästliku rakenduseni**

**Khan, Sikandar Muhammad Zulqarnain** 2022 [https://www.ester.ee/record=b5491661\\*est](https://www.ester.ee/record=b5491661*est) <https://digikogu.taltech.ee/et/Item/8244be00-273d-4d45-a34a-27f0f4350d32>

### **Narrowband internet of things (NBIIoT) for industrial automation**

**Malik, Hassan; Alam, Muhammad Mahtab; Kuusik, Alar; Le Moullec, Yannick; Päränd, Sven** Wireless automation as an enabler for the next industrial revolution 2020 / p. 65-87 <https://doi.org/10.1002/9781119552635.ch4>

### **NarrowBand-IoT performance analysis for healthcare applications**

**Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick; Kuusik, Alar** Procedia computer science 2018 / p. 1077–1083 <https://doi.org/10.1016/j.procs.2018.04.156> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **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](http://www.ester.ee/record=b1240496*est)

### **Non orthogonal multiple access: basic concepts and misconceptions**

Hassan, Syed Rizwan; **Shabbir, Noman**; Unbreen, Arooj; Rehman, Ateeq Ur; Iqbal, Ahmad NFC IEFER journal of engineering and scientific research 2020 / 4 p <http://doi.org/10.24081/nijesr.2019.1.0001>

### **Novel digital twin development methodology for the robot cell connectivity in a smart industry environment = Uudne digitaalsete kaksikute arendusmetoodika robottootmisrakkude sidustamiseks targa tööstuse keskkonnas**

**Kuts, Vladimir** 2019 <https://digi.lib.tu.ee/i/?12252> Tehnikaülikooli doktoritöö tõhusas robotijuhtimist virtuaalkaksikuga

### **Nutikalt rajatud teed aitavad ohutumalt liigelda**

Sillasoo, Signe; Puust, Märt Äripäev 2020 / Ehitusuudised, lk. 6-7 : ill [https://www.ester.ee/record=b1071975\\*est](https://www.ester.ee/record=b1071975*est)

### **A penalty scheme for mitigating uninstructed deviation of generation outputs from variable renewables in a distribution market**

Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan**; Chen, Qixin; Luo, Fengji; Liu, Weijia; Zhan, Junpeng IEEE Transactions on Smart Grid 2020 / p. 4056 - 4069 <https://doi.org/10.1109/TSG.2020.2993049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A Performance evaluation concept for production systems in an SME network**

**Mahmood, Kashif**; Lanz, Minna; Toivonen, Ville; **Otto, Tauno** Procedia CIRP 2018 / p. 603-608 : ill <https://doi.org/10.1016/j.procir.2018.03.182> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Preliminary analysis of cyberterrorism threats to internet of things (IoT) applications**

Balogun, Taofeek Mobolarinwa; **Bahsi, Hayretdin**; Karabacak, Bilge Terrorists' use of the Internet 2017 / p. 49-58 <http://doi.org/10.3233/978-1-61499-765-8-49>

### **Preliminary analysis of cyberterrorism threats to internet of things (IoT) applications [Online resource]**

**Bahsi, Hayretdin** Advanced Research Workshop supported by the NATO Science for Peace and Security Programme, Terrorists' Use of the Internet : assessment and response 2016 / p. 8 <http://www.cyberterrorism-project.org/wp-content/uploads/2016/11/Terrorists%E2%80%99-Use-of-the-Internet-Assessment-and-Response.pdf>

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

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

### **Pöörasel kiirusel arenev eriala: arukad süsteemid tekitavad vajaduse uut laadi IT-spetsialistide järele [Võrguväljaanne]**

digi.geenius.ee 2022 [Pöörasel kiirusel arenev eriala: arukad süsteemid tekitavad vajaduse uut laadi IT-spetsialistide järele](#)

### **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](#)

### **Radio resource management in NB-IoT systems : empowered by interference prediction and flexible duplexing**

**Malik, Hassan; Alam, Muhammad Mahtab**; Pervaiz, Haris; **Moullec, Yannick Le**; 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](#)

### **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](#)

### **Reducing energy consumption with IoT prototyping**

Saari, Mika; Sillberg, Pekka; Grönman, Jere; **Henno, Jaak** Acta Polytechnica Hungarica : journal of applied sciences at Budapest Polytechnic Hungary 2019 / p. 73–91 : ill <https://doi.org/10.12700/APH.16.9.2019.9.5> [http://acta.uni-obuda.hu/Saari\\_Sillberg\\_Gronman\\_Kuusisto\\_Rantanen\\_Jaakkola\\_Henno\\_96.pdf](http://acta.uni-obuda.hu/Saari_Sillberg_Gronman_Kuusisto_Rantanen_Jaakkola_Henno_96.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reliability management approach for a virtual enterprise of SMEs in a manufacturing domain = Usaldusväärsuse juhtimise raamistik tootmisvaldkonna väikese ja keskmise suurusega virtuaalettevõtetele**

**Mahmood, Kashif** 2019 <https://digi.lib.ttu.ee/i/?11235>

### **A report on the survey. Attitudes of Estonian healthcare professionals to internet-delivered cognitive behavioural therapy**

**Sogomonjan, Melita; Kerikmäe, Tanel; Ööpik, Pille; Ross, Peeter** Cogent psychology 2019 / art. 1637623, 12 p <https://doi.org/10.1080/23311908.2019.1637623> [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](#)

### **The rising role of big data analytics and IoT in disaster management : recent advances, taxonomy and prospects**

Shah, Syed Attique; Seker, Dursun Zafer; Hameed, Sufian; **Draheim, Dirk** IEEE Access 2019 / Art. nr. 8698814 <https://doi.org/10.1109/ACCESS.2019.2913340> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Risk assessment approach for a virtual enterprise of small and medium-sized enterprises**

**Mahmood, Kashif; Ševtšenko, Eduard; Karaulova, Tatjana; Otto, Tauno** Proceedings of the Estonian Academy of Sciences 2018 / p. 17-27 : ill <https://doi.org/10.3176/proc.2017.4.27> [http://www.ester.ee/record=b2355998\\*est](http://www.ester.ee/record=b2355998*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A scalable key and trust management solution for IoT sensors using SDN and blockchain technology**

Hameed, Sufian; Shah, Syed Attique; Saeed, Qazi Sarmad; Siddiqui, Shahbaz; Ali, Ihsan; **Vedešin, Anton; Draheim, Dirk** IEEE sensors journal 2021 / p. 8716-8733 <https://doi.org/10.1109/JSEN.2021.3052009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sec-IoT: A framework for secured decentralised IoT using blockchain-based technology**

**Khan, Muhidul Islam**; Lawal, Isah A. Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, Vol. 1 2020 / p. 269-277 [https://doi.org/10.1007/978-981-15-5856-6\\_27](https://doi.org/10.1007/978-981-15-5856-6_27) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Secure, context-aware and QoS-enabled SDN architecture to improve energy efficiency in IoT-based smart buildings**

Hakiri, Akram; Sallemi, Bassem; Ghandour, Fatma; **Ben Yahia, Sadok** Distributed computing for emerging smart networks : Second International Workshop, DiCES-N 2020, Bizerte, Tunisia, December 18, 2020, proceedings 2020 / p. 55-74 : ill [https://doi.org/10.1007/978-3-030-65810-6\\_4](https://doi.org/10.1007/978-3-030-65810-6_4) [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Self-aware fog computing in private and secure spheres**

**Tammemäe, Kalle**; Jantsch, Axel; **Kuusik, Alar**; Preden, Jürjo-Sören; **Õunapuu, Enn** Fog computing in the internet of things : intelligence at the edge 2018 / p. 71-99 : ill [http://www.ester.ee/record=b4692402\\*est](http://www.ester.ee/record=b4692402*est) [https://doi.org/10.1007/978-3-319-57639-8\\_5](https://doi.org/10.1007/978-3-319-57639-8_5)

### **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 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 Energy and power systems modelling: an IoT and Cyber-Physical Systems perspective, in the context of Energy Informatics**

Bordin, Chiara; Hakansson, Anne; **Mishra, Sambeet** Procedia computer science 2020 / p. 2254–2263 <https://doi.org/10.1016/j.procs.2020.09.275> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Smart healthcare : disease prediction using the cuckoo-enabled deep classifier in IoT framework**

Kumar, Ashwani; Reddy, S. Sai Satyanarayana; Mahommad, Gouse Baig; Khan, Baseem; **Sharma, Rahul** Scientific Programming 2022 <https://doi.org/10.1155/2022/2090681> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



**Smart sustainable agrivoltaics systems: The future of sustainable agricultural technology (Agri-tech) and green energy**  
Kuaban, Godlove Suila; Czekalski, Piotr; Nwobodo, Onyeka Josephine; **Sell, Raivo**; Nikitenko, Agris; Berkolds, Karlis; Tanko, Kenedy Tabah ICECCME 2023 : The 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME) 2023 / 6 p <https://doi.org/10.1109/ICECCME57830.2023.10253215>

**A smart-contract-based adaptive security governance architecture for smart city service interoperations**  
Siddiqui, Shahbaz; Hameed, Sufian; Shah, Syed Attique; Arshad, Junaid; Ahmed, Yussuf; **Draheim, Dirk** Sustainable Cities and Society 2024 / art. 105717 <https://doi.org/10.1016/j.scs.2024.105717> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Solar cells from TalTech to upsurge Internet of Things expansion**  
Sibinski, Maciej news.err.ee 2024 [Solar cells from TalTech to upsurge Internet of Things expansion](#)

**Supply chain and ICT issues of Estonia: survey findings**  
**Kiisler, Ain**; Solakivi, Tomi; **Hilmola, Olli-Pekka Kristian** Procedia computer science 2020 / p. 828-837  
<https://doi.org/10.1016/j.procs.2020.09.078> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**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](#)

**Synchronizing physical factory and its digital twin through an IIoT middleware : a case study**  
**Kuts, Vladimir**; Modoni, Gianfranco E.; **Otto, Tauno**; Sacco, Marco; **Tähemaa, Toivo**; **Bondarenko, Yevhen**; **Wang, Ruxin** Proceedings of the Estonian Academy of Sciences 2019 / p. 364–370 : ill [http://www.kirj.ee/32660/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/32660/?tpl=1061&c_tpl=1064)  
<https://doi.org/10.3176/proc.2019.4.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**TalTech ootab logistikasektorilt koostööd**  
Transport ja Logistika : infoleht 2020 / lk. 2 [https://www.ester.ee/record=b1975868\\*est](https://www.ester.ee/record=b1975868*est)

**TalTechi targad liftid jätvavad külastajad meelde**  
Ehitaja 2019 / lk. 9 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est)

**TalTechis valminud doktoritöö aitab asjade interneti seadmetel koostööd teha**  
Mente et Manu 2020 / lk. 33 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>  
<https://digikogu.taltech.ee/et/Item/67dab11b-894d-4903-b4ff-f4652e58bf81>

**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>

**Teaching and promoting smart internet of things solutions using the serious-game approach**  
**Õunapuu, Enn** Fusion of smart, multimedia and computer gaming technologies : research, systems and perspectives 2015 / p. 73-90 : ill

**Teadlased selgitasid välja asjade interneti seadmete energiavajaduse**  
**Härmat, Karin** Mente et Manu 2021 / lk. 33 [Mente et Manu 2/2021](#)

**Teadus 3 minutiga : päikesepatareid annavad vunki värvörguseadmetele [Võrguväljaanne]**  
Krautmann, Robert novaator.err.ee 2022 "[Teadus 3 minutiga: päikesepatareid annavad vunki värvörguseadmetele](#)"

**Tehnikaülikooli targad liftid oskavad sõita sinna, kuhu kundel vaja**  
Mente et Manu 2019 / lk. 8 : fot [https://www.ttu.ee/public/mv/mente-et-manu/MM\\_05\\_2019/mobile/index.html](https://www.ttu.ee/public/mv/mente-et-manu/MM_05_2019/mobile/index.html)  
[https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**The design and implementation of a semantic web framework for the event-centric digital forensics analysis**  
**Tšikul, Pavel**; **Bahşi, Hayretdin**; **Maennel, Olaf** International Conference on Information Systems Security and Privacy. 1 2024 / p. 570-581 <https://doi.org/10.5220/0012437700003648> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Toimiva digiühiskonna tagavad usaldusväärne tarkvara, turvaline riistvara ning energiasäästlikud ja nutikad asjad**  
**Härmat, Karin** Mente et Manu 2022 / lk. 32-33 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Toward software-defined networking-based IoT frameworks : a systematic literature review, taxonomy, open challenges and prospects**  
Siddiqui, Shahbaz; Hameed, Sufian; Shah, Syed Attique; Aneiba, Adel; **Draheim, Dirk**; Dustdar, Schahram IEEE Access 2022 / p. 70850-70901 <https://doi.org/10.1109/ACCESS.2022.3188311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Towards a machine learning-based framework for DDOS attack detection in software-defined IoT (SD-IoT) networks**

Bhayo, Jalal; Shah, Syed Attique; Hameed, Sufian; Ahmed, Awais; Nasir, Jamal; **Draheim, Dirk** Engineering Applications of Artificial Intelligence 2023 / art. 106432 <https://doi.org/10.1016/j.engappai.2023.106432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Towards disaster resilient smart cities : can internet of things and big data analytics be the game changers?**

Shah, Syed Attique; Seker, Dursun Zafer; Rathore, M. Mazhar; Hameed, Sufian; **Ben Yahia, Sadok; Draheim, Dirk** IEEE Access 2019 / art. 8759905, p. 91885–91903 <https://doi.org/10.1109/ACCESS.2019.2928233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Towards green and smart seaports : renewable energy and automation technologies for Bulk Cargo Loading Operations**

**Philipp, Robert**; Prause, Gunnar Klaus; Olaniyi, Eunice Omolola; Lemnke, Florian Environmental and Climate Technologies 2021 / p. 650 - 665 <https://doi.org/10.2478/rtuct-2021-0049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Towards SDN-based smart contract solution for IoT access control**

Khalid, Mizna; Hameed, Sufian; Qadir, Abdul; Shah, Syed Attique; **Draheim, Dirk** Computer communications 2023 / p. 1-31 <https://doi.org/10.1016/j.comcom.2022.11.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**TTÜs käivitub Telia toel uus IT teadusgrupp ja asjade interneti platvorm**

Mente et Manu 2017 / lk. 8 [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) [https://artiklid.elnet.ee/record=b2830857\\*est](https://artiklid.elnet.ee/record=b2830857*est)

**Unsupervised anomaly based botnet detection in IoT networks**

**Nömm, Sven; Bahsi, Hayretdin** 17th IEEE International Conference on Machine Learning and Applications : ICMLA 2018, 17–20 December 2018, Orlando, Florida, USA : proceedings 2018 / p. 1048-1053 <https://doi.org/10.1109/ICMLA.2018.00171>

**Using games to understand and create randomness**

**Henno, Jaak**; Jaakkola, Hannu; Mäkeläinen, Jukka Proceedings of the SQAMIA 2018: 7th Workshop of Software Quality, Analysis, Monitoring, Improvement, and Applications, Novi Sad, Serbia, 27-30. August 2018 2018 <https://www.scopus.com/record/display.uri?eid=2-s2.0-85054376554&origin=inward&txGid=738e163a0c73e3a2a124039455cafce7> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Using MedBloT dataset to build effective machine learning-based IoT botnet detection systems**

**Guerra Manzanares, Alejandro; Medina-Galindo, Jorge; Bahsi, Hayretdin; Nömm, Sven** Information Systems Security and Privacy : 6th International Conference, ICISP 2020, Valletta, Malta, February 25–27, 2020 : revised selected papers 2022 / p. 222–243 [https://doi.org/10.1007/978-3-030-94900-6\\_11](https://doi.org/10.1007/978-3-030-94900-6_11) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**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>

**5G tehnoloogia lükkab käima uued idufirmad ja aitab kaasa tööstuse digitaliseerimisele**

**Härmat, Karin** Mentel et Manu 2019 / lk. 40-41 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est) [https://www.ttu.ee/public/m/mente-et-manu/MM\\_04\\_2019/mobile/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_04_2019/mobile/index.html)