Acceleration data acquisition and processing system for structural health monitoring
Herranen, Henrik; **Kuusik, Alar**; **Saar, Tõnis**; **Reidla, Marko**; **Land, Raul**; **Märtens, Olev**; **Majak, Jüri** 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

Analysis and improvement of resilience for long short-term memory neural networks
Ahmadilivani, Mohammad Hasan; **Raik, Jaan**; **Daneshtalab, Masoud**; **Kuusik, Alar** 2023 IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT) 2023 / 4 p https://doi.org/10.1109/DFT59622.2023.10313559

Bio-impedance FDM-modelling inside heart for application in implanted devices
Gordon, Rauno; **Kuusik, Alar** Proceedings of the 31st International Congress of Electrocardiology "Advances in Electrocardiology 2004" : 27 June - 1 July, 2004, Singapore 2005 / p. 778-782

Bioimpedance monitoring with improved accuracy using three-level stimulus
Paavle, Toivo; **Annus, Paul**; **Kuusik, Alar**; **Land, Raul**; **Min, Mart** Proceedings of European Conference on Circuit Theory and Design 2007 (ECCTD'07) : Seville, Spain, August 26-30, 2007 2007 / p. 412-415

Channel prediction based enhanced throughput and channel aware MAC in SmartBAN standard
Khan, Rida; **Alam, Muhammad Mahtab**; **Kuusik, Alar** 2019 16th International Symposium on Wireless Communication Systems (ISWCS) 2019 / p. 463-468 : ill https://doi.org/10.1109/ISWCS.2019.8877244

Compact smart home systems : design and verification of cost effective hardware solutions
Kuusik, Alar 2001 http://www.ester.ee/record=b1578112*est

Compact smart home systems : design and verification of cost effective hardware solutions
Kuusik, Alar 2001 http://www.ester.ee/record=b1622134*est

Component based development of hybrid control systems
Vain, Jüri; **Kuusik, Alar**; **Kääramees, Marko** Proceedings of the 15th International Conference on CAD/CAM, Robotics & Factories of the Future CARSAMPFOF'99 : August 18-20, 1999, Aguas de Lindoia, Brasil. Vol. 2 1999 / p. RW5-1 - RW5-6
https://www.researchgate.net/publication/2611129_Component_Based_Development_of_Hybrid_Control_Systems

Component based technique for hybrid control systems design
Vain, Jüri; **Kuusik, Alar**; **Kääramees, Marko** Proceedings of the 11th Nordic Workshop on Programming Theory : NWPT'99 : Uppsala University, Sweden, October 6-8, 1999 1999 / p. 48

Computer modelling of intracardiac electrical bioimpedance
Gordon, Rauno; **Kuusik, Alar** Proceedings of the 31. International Congress on Electrocardiology : June 27-July 1, 2004, Kyoto, Japan 2004 / [4] p

Current mode signal processing in modern lock-in amplifiers
Min, Mart; **Parve, Toomas**; **Kuusik, Alar** 8th International Symposium on New Measurement and Calibration Methods of Electrical Quantities and Instruments : Budapest, September 16-17, 1996 : proceedings [IMEKO TC-4] 1996 / p. 49-52 : ill

Current-mode lock-in amplifier
Kuusik, Alar BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 363-366: ill

Design of a highly efficient analog-to-digital converter for Wi-Fi 7 devices = Pidevaja Sigma-Delta muunduri disain Wi-Fi 7 seadmetele
Kampus, Vahur 2025 https://www.ester.ee/record=b5752898*est https://digikogu.taltech.ee/et/Item/156d4c1c-e0f9-45aa-93a9-2cc8f1431aa0
https://doi.org/10.23658/taltech.46/2025

Development of methods for real-time in-step anomaly detection in gait analysis = Reaalajaliste meetodite arendus sammusiseste kõrvalkallete tuvastamiseks kõnnianalüüsis
Rostovski, Jakob 2025 https://www.ester.ee/record=b5734578*est https://digikogu.taltech.ee/et/Item/c25ff8f8-a46a-45ce-b231-23d2d52e7f54
https://doi.org/10.23658/taltech.15/2025

Device and method for monitoring bioimpedance of tissue transplants
Annus, Paul; **Haldre, Eero**; **Kuusik, Alar**; **Land, Raul**; **Min, Mart**; **Paavle, Toivo**; **Parve, Toomas** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuuseum 2007 / lk. 140-143 : ill

Digital multichannel bioimpedance analyser : signal processing approaches
Ronk, Ants; **Annus, Paul**; **Kuusik, Alar**; **Land, Raul**; **Märtens, Olev** Proceedings of the 3rd European Medical & Biological Engineering Conference EMBEC'05 : November 20-25, 2005, Prague, Czech Republic 2005 / [4] p
https://www.researchgate.net/publication/224062830_A_Digital_Multichannel_Bioimpedance_Analyser_Signal_Processing_Task_and_its_Solution

A digital multichannel bioimpedance analyser : signal processing task and its solution
Annus, Paul; **Kuusik, Alar**; **Land, Raul**; **Märtens, Olev**; **Ronk, Ants** Proc. of the IEEE Instrumentation and Measurement Technology Conference : IMTC 2006 : Sorrento, Italy, April 24-27, 2006 2006 / p. 1405-1409 https://doi.org/10.1109/IMTC.2006.328596

Dynamic slot allocation using non overlapping backoff algorithm in IEEE 802.15.6 WBAN
Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan Khalid; **Alam, Muhammad Mahtab**; **Kuusik, Alar**; **Le Moullec, Yannick** IEEE sensors journal 2020 / p. 10862-10875 : ill https://doi.org/10.1109/JSEN.2020.2993795 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Eesti iduettevõte töötas koos TalTechiga välja rahakotisõbraliku lahenduse, mis muudab energia säästmise lihtsamaks nii elu- kui ärihoonetes
geenius.ee 2023 Eesti iduettevõte töötas koos TalTechiga välja rahakotisõbraliku lahenduse, mis muudab energia säästmise lihtsamaks nii elu- kui ärihoonetes

Efektiivsus ja igakülgne toetus Jaapani teadusmaailmas : [A.Kuusik oma osalemisest järeldoktoriprogrammis Tokyo Denki Ülikoolis 2003-2004]
Kuusik, Alar Eesti Teadusfondi Aastaraamat 2004 2005 / lk. 29-30 : fot

Effects of physical exercise on balange, range of motion (ROM) and angular velocity (AV) measurements
Kask, Triin; **Kuusik, Alar**; Meerolla Kumar, S.; Maamägi, Heigo; Gross-Paju, Katrin Journal of the neurological sciences 2019 / p. 295–296 : ill https://doi.org/10.1016/j.jns.2019.10.1380

Empirical evaluation of NB-IoT and CAT-M coverage for underground water system
Roosipuu, Priit; **Annus, Ivar**; **Kuusik, Alar**; **Kändler, Nils**; **Alam, Muhammad Mahtab**; **Müürsepp, Ivo** IEEE Access 2024 / p. 187290-187301 https://doi.org/10.1109/ACCESS.2024.3478733 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An empirical modeling for the baseline energy consumption of an NB-IoT radio transceiver
Khan, Sikandar Muhammad Zulqarnain; **Alam, Muhammad Mahtab**; **Le Moullec, Yannick**; **Kuusik, Alar**; Pärand, Sven; Verikoukis, Christos IEEE Internet of Things Journal 2021 / p. 14756-14772 : ill https://doi.org/10.1109/JIOT.2021.3072769 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

An energy efficient wearable tissue monitor
Annus, A.; **Kuusik, Alar**; **Land, Raul**; **Haldre, Eero**; **Min, Mart**; **Parve, Toomas**; **Poola, Gustav** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 240-243 https://link.springer.com/chapter/10.1007/978-3-540-73841-1_64

Engineering approach for realization of small smart home systems
Kuusik, Alar Preprints [of the] 1st IFAC Conference [on] Telematics Applications in Automation and Robotics : TA'2001 : Weingarten, Germany, July 24-26, 2001 2001 / p. 499-503 : ill https://www.sciencedirect.com/science/article/pii/S1474667017417393

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

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

Extendable data model for universal health records
Reilent, Enar; **Lõõbas, Ivor**; **Kuusik, Alar**; **Parve, Marko**; **Ross, Peeter** AMA-IEEE Medical Technology Conference : Boston, 16-18 October 2011 2011 / [2] p. : ill

Fast synchronous detector based on video switches
Kuusik, Alar Scientific proceedings of Riga Technical University. 7. serija, Telecommunications and electronics 2001 / p. 89-90 : ill

Fast synchronous detector based on video switches
Kuusik, Alar 42-nd Riga Technical University Conference Section on Electronics and Telecommunications : RTUC'2001 : Riga,

Latvia, Oct. 11-13, 2001 : conference proceedings 2001 / p. 89-90

Foreign object induced fiber undulation influence on mechanical properties of composite laminate
Herranen, Henrik; **Lend, Henri**; **Kuusik, Alar**; Czichon, Steffen; **Kers, Jaan**; **Piirlaid, Marko** International Conference on Composite Materials 2013 (ICCM-19) : Montreal, Quebec, Canada, 28 July-2 August 2013 : [proceedings] 2013 / p. 837-844

Formal safety validation of mobile robot teleoperation
Vain, Jüri; Suzuki, Satoshi; **Kuusik, Alar** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 161-164 : ill

Formal specification of sensors
Kuusik, Alar; **Vain, Jüri** Ringhääling '99 : VI Rahvusvahelise Telekommunikatsioonipäeva konverentsi ettekannete materjalid 1999 / lk. 80-83

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

Handling industrial hazards by pre-emptive model checking [Electronic resource]
Kuusik, Alar; **Otto, Tauno**; **Vain, Jüri** 4th International Conference on Industrial Automation : June 9-11, 2003, Montreal, Canada : proceedings 2003 / [4] p. : ill. [CD-ROM] https://www.academia.edu/17640340/Handling_Industrial_Hazards_by_Pre_emptive_Model_Checking

Home based monitoring system with wireless sensors that confirm stable balance and motor function readings during remission is feasible for patients with multiple sclerosis
Gross-Paju, Katrin; Maamägi, Heigo; Reilent, Enar; **Kuusik, Alar** Journal of the neurological sciences 2017 / p. 436 https://doi.org/10.1016/j.jns.2017.08.3444

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

Home telecare and rehabilitation system with aspect oriented functional integration
Kuusik, Alar; **Reilent, Enar**; **Sarna, Külli**; **Parve, Marko** Biomedical Engineering = Biomedizinische Technik ; 57 2012 / p. 1004-1007 : ill https://pubmed.ncbi.nlm.nih.gov/23096276/

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

A human-adaptive-mechatronics assisted system for training constructional ability
Miyashita, O.; Tsukamoto, S.; **Kuusik, Alar**; Miyata, D.; Yoshida, T.; **Vain, Jüri**; Ishigami, S. Proceedings of the 8th International Conference on Mechatronics Technology : ICMT2004 : Hanoi, Vietnam, November 8-12, 2004 2004 / p. 551-555

Hydromast : a bioinspired flow sensor with accelerometers
Ristolainen, Asko; **Tuhtan, Jeffrey Andrew**; **Kuusik, Alar**; **Kruusmaa, Maarja** Biomimetic and biohybrid systems : 5th International Conference, Living Machines 2016, Edinburgh, UK, July 19-22, 2016 : proceedings 2016 / p. 510-517 : ill https://doi.org/10.1007/978-3-319-42417-0_55 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

Hydromorphological classification using synchronous pressure and inertial sensing
Ristolainen, Asko; **Kalev, Kaia**; **Tuhtan, Jeffrey Andrew**; **Kuusik, Alar**; **Kruusmaa, Maarja** IEEE transactions on geoscience and remote sensing 2018 / p. 3222-3232 : ill https://doi.org/10.1109/TGRS.2018.2795641 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improving the data compatibility of PHR and telecare solutions
Reilent, Enar; **Kuusik, Alar**; **Lõõbas, Ivor**; **Ross, Peeter** 5th European Conference of the International Federation for Medical and Biological Engineering : 14-18 September 2011, Budapest, Hungary 2012 / p. 925-928 https://link.springer.com/chapter/10.1007/978-3-642-23508-5_240

Inertial and positioning sensors fusion for indirect location tracking in warehouse inventory management
Fjodorov, Aleksei; Ulp, Sander; **Alam, Muhammad Mahtab**; **Kuusik, Alar** 2023 International Conference on Control, Automation and Diagnosis (ICCAD) 2023 / p. 1-7 https://doi.org/10.1109/ICCAD57653.2023.10152404

Intelligentne maja : olemus ja eesmärgid
Kuusik, Alar Raadiotehnika '97 : ettekannete materjalid 1997 / lk. 65-68: ill

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

Latest research trends in gait analysis using wearable sensors and machine learning: A systematic review
Saboor, Abdul; **Kask, Triin**; **Kuusik, Alar**; **Alam, Muhammad Mahtab**; **Le Moullec, Yannick** IEEE Access 2020 / art. 3022818, p. 167830−167864 https://doi.org/10.1109/ACCESS.2020.3022818 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Lühiülevaade RFID standarditest
Kuusik, Alar; Ojarand, Jaan A & A 2007 / 4, lk. 47-53 https://artiklid.elnet.ee/record=b1020909*est

Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist
Alvela, Ain ohtuleht.ee 2024 Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist

Matrix Profile based anomaly detection in streaming gait data for fall prevention
Gerazov, Branislav; Hadjieva, Elena; **Krivošei, Andrei**; **Sanchez, Fiorella Ines Soto**; **Rostovski, Jakob**; **Kuusik, Alar**; **Alam, Muhammad Mahtab** 2023 30th International Conference on Systems, Signals and Image Processing (IWSSIP) 2023 / p. 1-5 https://doi.org/10.1109/IWSSIP58668.2023.10180243

Measurement of intracardiac bioimpedance in rate adaptive pacemakers
Kuusik, Alar; **Land, Raul**; **Min, Mart**; **Parve, Toomas**; **Poola, Gustav** Proceedings of the 31. International Congress on Electrocardiology : June 27-July 1, 2004, Kyoto, Japan 2004 / [4] p

Measurement of intracardiac bioimpedance in rate adaptive pacemakers
Kuusik, Alar; **Land, Raul**; **Min, Mart**; **Parve, Toomas**; **Poola, Gustav** Proceedings of the 31st International Congress of Electrocardiology "Advances in Electrocardiology 2004" : 27 June - 1 July, 2004, Singapore 2005 / p. 738-742

Medical and context data acquisition system for patient home monitoring
Reilent, Enar; **Lõõbas, Ivor**; **Pahtma, Raido**; **Kuusik, Alar** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 269-272

Method and system for real-time motion abnormality detection
Krivošei, Andrei; **Kuusik, Alar**; **Rostovski, Jakob**; **Alam, Muhammad Mahtab** 2024 https://patentscope2.wipo.int/search/ar/detail.jsf;jsessionid=4F73F7EDD8684B2050668D97A6E3E4BC?docId=WO2024257016&_cid=JP2-M52SGO-27841-1

Model checking for planning resource-sharing production
Vain, Jüri; **Otto, Tauno**; **Kuusik, Alar** Proceedings 20th International Conference on CAD/CAM, Robotics and Factories of the Future : July 21, 22 and 23, 2004, San Cristobal - Venezuela 2004 / p. 151-158 https://www.academia.edu/17640325/Model_Checking_for_Planning_Resource_Sharing_Production

Model-based analysis of secure and patient-dependent pacemaker monitoring system
Tsiopoulos, Leonidas; **Kuusik, Alar**; **Vain, Jüri**; **Bahsi, Hayretdin** Body Area Networks. Smart IoT and Big Data for Intelligent Health : 15th EAI International Conference, BODYNETS 2020, Tallinn, Estonia, October 21, 2020 : proceedings 2020 / p. 77-91 https://doi.org/10.1007/978-3-030-64991-3_6 Journal metrics at scopus Article at Scopus

A modular 6LoWPAN-based wireless sensor body area network for health-monitoring applications
Le Moullec, Yannick; **Lecat, Yoann**; **Annus, Paul**; **Land, Raul**; **Kuusik, Alar**; **Reidla, Marko**; **Hollstein, Thomas**; **Reinsalu, Uljana**; **Tammemäe, Kalle**; **Ruberg, Priit** APSIPA ASC 2014 : Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 : December 9-12, 2014, Siem Reap, city of Angkor Wat, Cambodia 2014 / [4] p. : ill

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

Narrowband internet of things (NB-IoT) for industrial automation
Malik, Hassan; **Alam, Muhammad Mahtab**; **Kuusik, Alar**; **Le Moullec, Yannick**; Pärand, Sven Wireless automation as an enabler for the next lidustrial 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**; **Pärand, 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

Neural networks based system for the supervision of therapeutic exercises
Nõmm, Sven; **Kuusik, Alar**; **Ovsjanski, Sergei**; Malmberg, Ines; **Parve, Marko**; Orunurm, Lii Neural information processing : 19th International Conference, ICONIP 2012, Doha, Qatar, November 12-15, 2012 : proceedings. Part IV 2012 / p. 364-371 : ill
https://link.springer.com/chapter/10.1007/978-3-642-34478-7_45

New synchronous measurement technique for intracardiac impedance analysis
Kuusik, Alar; **Land, Raul**; **Min, Mart**; **Parve, Toomas** International journal of bioelectromagnetism 2003 / 1, Advances in Electrocardiology : proceedings of the XXX International Congress of Electrocardiology : ICE2003 : June 11-14, 2003, Helsinki, Finland, p. 23-24

Novel real-time in-step gait anomaly detection algorithms
Rostovski, Jakob; **Krivošei, Andrei**; **Kuusik, Alar**; **Le Moullec, Yannick**; **Alam, Muhammad Mahtab** techrxiv.org 2024
https://doi.org/10.36227/techrxiv.171173236.66440239/v1

Performance comparison of smartphones and a wearable motion sensor for patient m-assessment [Online resource]
Kask, Triin; **Kuusik, Alar** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill https://doi.org/10.1109/BEC.2018.8600973

Personalized context-aware recommendations in SMARTMUSEUM : combining semantics with statistics
Liiv, Innar; **Tammet, Tanel**; Ruotsalo, Tuukka; **Kuusik, Alar** Proceedings of the Third International Conference on Advances in Semantic Processing (SEMAPRO 2009) : Sliema, Malta, October 2009 2009 / p. 50-55 https://ieeexplore.ieee.org/document/5291537

Prototyping of a machine learning based auxiliary neurostimulation system
Grigorjev, Nikolai; **Le Moullec, Yannick**; **Kuusik, Alar** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l.
https://doi.org/10.1109/BEC56180.2022.9935607

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

Real-time data streaming for functionally improved eHealth solutions
Reilent, Enar; **Kuusik, Alar**; **Puju, Madis** Proceedings : IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI 2012) in conjunction with the 8th International Symposium on Medical Devices and Biosensors and the 7th International Symposium on Biomedical and Health Engineering "Global Grand Challenge of Health Informatics" : January 2-7, 2012, Hong Kong and Shenzhen, China 2012 / p. 140-143 : ill https://ieeexplore.ieee.org/document/6211528

Real-time gait anomaly detection using 1D-CNN and LSTM
Rostovski, Jakob; **Ahmadilivani, Mohammad Hasan**; **Krivošei, Andrei**; **Kuusik, Alar**; **Alam, Muhammad Mahtab** Digital Health and Wireless Solutions : First Nordic Conference, NCDHWS 2024, Oulu, Finland, May 7–8, 2024 : Proceedings, Part II 2024 / p. 260-278 https://doi.org/10.1007/978-3-031-59091-7_17 Conference proceedings at Scopus Article at Scopus Article at WOS

Real-time gait anomaly detection using SVM time series classification
Rostovski, Jakob; **Krivošei, Andrei**; **Kuusik, Alar**; **Alam, Muhammad Mahtab**; **Ahmadov, Ulvi** 2023 International Wireless Communications and Mobile Computing (IWCMC) 2023 / p. 1389-1394 https://doi.org/10.1109/IWCMC58020.2023.10182666

RFID rack assembly development for mobile platform
Randmaa, Merili; Otto, Tauno; Kuusik, Alar Annals of DAAAM for 2009 & proceedings of the 20th International DAAAM Symposium "Intelligent Manufacturing & Automation : Focus on Theory, Practice and Education" : 25-28th November 2009, Vienna, Austria 2009 / p. 1697-1698 : ill

RFID-based communications for a self-organizing robot swarm
Tammet, Tanel; **Vain, Jüri**; **Puusepp, Andres**; **Reilent, Enar**; **Kuusik, Alar** SASO 2008 : Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems : 20-24 October, 2008, Venice, Italy : proceedings 2008 / p. 45-54
https://ieeexplore.ieee.org/document/4663409

RFID-based knowledge space for service robot swarms [Electronic resource]
Tammet, Tanel; **Vain, Jüri**; **Kuusik, Alar** Proceedings of the 3rd COE Workshop on Human Adaptive Mechatronics (HAM) : 3-4 March 2006, Tokyo Denki University, Japan 2006 / [6] p. [CD-ROM]

Safety verification of degrading mechatronic systems
Vain, Jüri; **Kuusik, Alar**; **Kaljas, Frid** The Fourth International Conference on Machine Automation : Human-Friendly Reliable

Mechatronics, September 11-13, 2002, Tampere, Finland : proceedings of the ICMA'02 2002 / p. 615-622 : ill

Scheme development for specification hybrid components of control systems
Vain, Jüri; **Kuusik, Alar**; **Kääramees, Marko** CAx Techniques : proceedings of the 4th International Scientific Colloquium : Bielefeld, Germany, September 13-15, 1999 1999 / p. 483-491

Self-aware fog computing in private and secure spheres
Tammemäe, Kalle; Jantsch, Axel; **Kuusik, Alar**; Preden, Jürgo-Sören; **Õunapuu, Enn** Fog computing in the internet of things : intelligence at the edge 2018 / p. 71-99 : ill http://www.ester.ee/record=b4692402*est https://doi.org/10.1007/978-3-319-57639-8_5

Semantic formal reasoning solution for personalized home telecare
Kuusik, Alar; Reilent, Enar; Lõõbas, Ivor; Parve, Marko Proceedings of 2010 International Conference on Mechanical and Electrical Technology (ICMET 2010) : Singapore, September 10-12, 2010 2010 / p. 72-76 https://ieeexplore.ieee.org/document/5598496

Sensortehnoloogia põhised kiibid on Eesti võimalus : Alar Kuusik: „Ootan väga, et ühiskonnas tuleks tagasi vastuvõtlikkus uutele, ka radikaalsetele lahendustele ja reformidele.“
Kuusik, Alar sirp.ee 2025 https://www.sirp.ee/sensortehnoloogia-pohised-kiibid-on-eesti-voimalus/

Smart house
Kuusik, Alar Integrated systems and design : interstudy, May 9, 2008 2008 / p. 65-72

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

SMARTMUSEUM : cultural content recommendation system for mobile users
Kuusik, Alar; Roche, Sylvain; Weis, Frederic Proceedings Fourth International Conference on Computer Sciences and Convergence Information Technology : ICCIT 2009 : Seoul, Korea, 24-26 November 2009 2009 / p. 447-452
https://ieeexplore.ieee.org/document/5367887

SOC at smart home realizations
Kuusik, Alar Raadiotehnika 2001 : VIII rahvusvahelise telekommunikatsioonipäeva materjalid 2001 / lk. 121-122

SoC based mobile robot telecontrol system
Kuusik, Alar BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 153-154 : ill

Software architecture for modern telehealth care systems
Kuusik, Alar; **Reilent, Enar**; Lõõbas, Ivor; **Parve, Marko** Advances on information sciences and service sciences 2011 / p. 141-151

Software architecture for modern telehome care systems
Kuusik, Alar; Reilent, Enar; Lõõbas, Ivor; Parve, Marko Proceedings of the 6th International Conference on Networked Computing (INC 2010) : Gyeongju, Korea, May 11-13, 2010 2010 / p. 326-331 : ill https://ieeexplore.ieee.org/document/5484807

Software architecture for swarm mobile robots
Vain, Jüri; **Tammet, Tanel**; **Kuusik, Alar**; **Reilent, Enar** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 231-234 : ill

Some signal processing ideas for ultrasound motion detectors
Kuusik, Alar BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 313-314: ill

Specification of hybrid components of control systems
Vain, Jüri; **Kuusik, Alar**; **Kääramees, Marko** Preprints of the 5th IFAC Workshop on Intelligent Manufacturing Systems IMS'98, November 9-11 1998, Gramado - RS, Brazil 1998 / p. 83-88: ill https://www.sciencedirect.com/science/article/pii/S147466701741007X

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

SVM Time series classification of selected gait abnormalities
Rostovski, Jakob; **Krivošei, Andrei**; **Kuusik, Alar**; **Ahmadov, Ulvi** BODYNETS 2021: Body Area Networks. Smart IoT and Big Data for Intelligent Health Management : 16th EAI International Conference, BODYNETS 2021, Virtual Event, October 25-26, 2021 :

proceedings 2022 / 15 p https://doi.org/10.1007/978-3-030-95593-9_16 Conference proceedings at Scopus Article at Scopus Article at WOS

Süvatehnoloogiate alternatiivsed arengutrajektoorid ja nende tähendus Eestile : lõpparuanne
Koppel, Kaupo; Kuusik, Alar; Arrak, Kadri; **Raik, Jaan**; **Niidu, Allan**; Kõks, Kerttu-Liis; **Lahtvee, Petri-Jaan** 2023 https://media.voog.com/0000/0037/5345/files

Synchronization algorithm for RFID-reader and its implementation
Märtens, Olev; Liimets, Aivar; **Kuusik, Alar** 2015 Advances in Wireless and Optical Communications RTUWO : 5-6 November 2015, Riga, Latvia : proceedings 2015 / p. 82-85 : ill https://doi.org/10.1109/RTUWO.2015.7365725

Synchronous detector with MOSFETs
Kuusik, Alar BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 229-232: ill

Tehisaru - inimesed - robotid : [viienda tööstusrevolutsiooni ootel]
Alvela, Ain Tehnikamaailm 2025 / lk. 44-48 : ill https://www.ester.ee/record=b1073050*est

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

Towards scalable proofs of robot swarm dependability
Vain, Jüri; **Tammet, Tanel**; **Kuusik, Alar**; Juurik, Silver BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 199-202 : ill

Ultrasound sensor in integrated presence detection system
Kuusik, Alar Telekommunikatsioon '98 : rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid, 15. mai 1998 1998 / lk. 79-83: ill

Using RFID tags for robot swarm cooperation
Tammet, Tanel; **Vain, Jüri**; **Kuusik, Alar** WSEAS transactions on systems 2006 / 5, p. 1121-1128

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