

ADAssure : debugging methodology for autonomous driving control algorithms

Roberts, Andrew James; Heidari Iman, Mohammad Reza; Bellone, Mauro; Ghasempouri, Tara; Raik, Jaan; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian 2024 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2024 / p. 1-6 <https://doi.org/10.23919/DATE58400.2024.10546519>

Aggregated demand-side energy flexibility : a comprehensive review on characterization, forecasting and market prospects

Plaum, Freddy; Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako Energy reports 2022 / p. 9344-9362

<https://doi.org/10.1016/j.egy.2022.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings

Maask, Vahur; Rosin, Argo; Korõtko, Tarmo; Thalfeldt, Martin; Syri, Sanna; Ahmadihangar, Roya Energy and buildings 2023 / art. 113369, 14 p. : ill <https://doi.org/10.1016/j.enbuild.2023.113369> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Airtightness of Estonian dwellings – median and base-values for heat loss estimation

Hallik, Jaanus; Kalamees, Targo; Pikas, Ergo Journal of Physics: Conference Series 2023 / 9 p <https://doi.org/10.1088/1742-6596/2654/1/012063> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Algorithms for online CO2 baseline correction in intermittently occupied rooms

Vihman, Lauri; Parts, Tuule Mall; Aljas, Hans Kristjan; Thalfeldt, Martin; Raik, Jaan Healthy Buildings 2023 Europe: Beyond Disciplinary Boundaries: proceedings ; 1 2023 / p. 302-309 : ill <https://www.proceedings.com/content/070/070278webtoc.pdf>

Analysing adversarial threats to rule-based local-planning algorithms for autonomous driving

Roberts, Andrew James; Malayjerdi, Mohsen; Bellone, Mauro; Maennel, Olaf Manuel; Malayjerdi, Ehsan The Inaugural Symposium on Vehicle Security and Privacy (VehicleSec) 2023, 27 February 2023, San Diego, CA, USA 2023 / 8 p. : ill <https://doi.org/10.14722/vehiclesec.2023.23086>

Analysis of traditional and alternative methods for solving voltage problems in low voltage grids : an Estonian case study

Rosin, Argo; Drovtar, Imre; Mölder, Heigo; Haabel, Kaija; Astapov, Victor; Vinnal, Toomas; Korõtko, Tarmo Energies 2022 / art. 1104 <https://doi.org/10.3390/en15031104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analyzing energy flexibility by demand response in a Finnish district heated apartment building

Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 09006, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124609006> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

Analyzing power and energy flexibilities by demand response in district heated buildings in Finland and Germany

Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp Science and technology for the built environment 2021 / p. 1440-1460 : ill <https://doi.org/10.1080/23744731.2021.1950434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region

Ahmadihangar, Roya; Karami, Hossein; Husev, Oleksandr; Blinov, Andrei; Rosin, Argo; Jonaitis, Audrius; Sanjari, Mohammad Javad Energy 2022 / art. 121744, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.121744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ANN-LSTM based tool for photovoltaic power forecasting

Zahraoui, Younes; Korõtko, Tarmo; Mekhilef, Saad; Rosin, Argo 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE) : proceedings 2024 / 6 p. : ill <https://doi.org/10.1109/SGRE59715.2024.10428969>

Assessment of downward draught in high-glazing facades in cold climates – experimental and CFD study into draught control with a 21-type radiator

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 02002, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124602002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Assessment of power system asset dispatch under different local energy community business models

Korõtko, Tarmo; Plaum, Freddy; Häring, Tobias; Mutule, Anna; Lazdins, Roberts; Boršcevisks, Olegs; Rosin, Argo; Carroll, Paula Energies 2023 / art. 3476 <https://doi.org/10.3390/en16083476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assignment of a synthetic population for activity-based modeling employing publicly available data

Agriesti, Serio Angelo Maria; Roncoli, Claudio; Nahmias-Biran, Bat-Hen ISPRS International Journal of Geo-Information 2022 / Art. 148 <https://doi.org/10.3390/ijgi11020148> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Autonomous driving in the real-world : the weather challenge in the Sohjoa Baltic Project

Bellone, Mauro; Ismailogullari, Azat; **Müür, Jaanus**; Nissin, Oscar; **Sell, Raivo**; **Soe, Ralf-Martin** Towards connected and autonomous vehicle highways : technical, security and social challenges 2021 / p. 229–255 https://doi.org/10.1007/978-3-030-66042-0_9
[Article collection metrics at Scopus](#) [Article at Scopus](#)

Autonomous driving validation and verification using digital twins

Pikner, Heiko; Malayjerdi, Mohsen; Bellone, Mauro; Baykara, Baris Cem; Sell, Raivo Proceedings of the 10th International Conference on Vehicle Technology and Intelligent Transport Systems - VEHTS ; Vol. 1 2024 / p. 204-211
<https://doi.org/10.5220/0012546400003702> [Conference Proceeding at Scopus](#) [Article at Scopus](#)

Autonomous vehicle shuttle in Smart City testbed

Sell, Raivo; Soe, Ralf-Martin; Wang, Ruxin; Rassölkin, Anton Intelligent System Solutions for Auto Mobility and Beyond : Advanced Microsystems for Automotive Applications 2020 2021 / p. 143–157 https://doi.org/10.1007/978-3-030-65871-7_11

A Bayesian optimization approach for calibrating large-scale activity-based transport models

Agriesti, Serio; Kuzmanovski, Vladimir; Hollmen, Jaakko; Roncoli, Claudio; Nahmias-Biran, Bat-Hen IEEE Open Journal of Intelligent Transportation Systems 2023 / p. 740 - 754 <https://doi.org/10.1109/OJITS.2023.3321110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building performance indicators and IEQ assessment procedure for the next generation of EPC-s

Võsa, Karl-Villem; Ferrantelli, Andrea; Tzanev, Dragomir; Simeonov, Kamen; Camero, Pablo; Espigares, Carlos; Navarro Escudero, Miriam; Quiles, Pedro Vicente; Andrieu, Thibault; Battezzati, Florian; Kurnitski, Jarek E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 13003, 9 p <https://doi.org/10.1051/e3sconf/202124613003> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Camera-LIDAR fusion based object segmentation in adverse weather conditions for autonomous driving

Gu, Junyi; Bellone, Mauro; Lind, Artjom 2024 19th Biennial Baltic Electronics Conference (BEC) 2024
<https://doi.org/10.1109/BEC61458.2024.10737955> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Capillary condensation redistribution (CCR) test: measurement results of 5 materials and comparison to modelling

Klõšeiko, Paul; Valk, Thorny; Põldaru, Mattias; Kalamees, Targo Journal of Physics: Conference Series 2023 / 8 p
<https://doi.org/10.1088/1742-6596/2654/1/012047> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Challenging diffusion of digital receipts

Soe, Ralf-Martin 2021 Eighth International Conference on eDemocracy and eGovernment (ICEDEG) : Quito, Ecuador, 28-30 July 2021 2021 / p. 110–117 <https://doi.org/10.1109/ICEDEG52154.2021.9530887>

A chameleon algorithm for solving economic dispatch problem in microgrid system

Zahraoui, Younes; Alhamrouni, Ibrahim; Mekhilef, Saad; Korõtko, Tarmo; Jusoh, Awang; Sutikno, Tole Bulletin of electrical engineering and informatics 2023 / p. 1982-1992 : ill <https://doi.org/10.11591/eei.v12i4.4700> [Journal metrics at Scopus](#) [Article at Scopus](#)

Characterizing energy flexibility of buildings with electric vehicles and shiftable appliances on single building level and aggregated level

Azizi, Elnaz; Ahmadihangar, Roya; Rosin, Argo; Bolouki, Sadegh Sustainable cities and society 2022 / art. 103999
<https://doi.org/10.1016/j.scs.2022.103999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Circular renovation of an apartment building with prefabricated additional insulation elements to nearly zero energy building

Nigumann, Eero; Kalamees, Targo; Kuusk, Kalle; Pihelo, Peep Journal of sustainable architecture and civil engineering 2024 / p. 22-34 <https://doi.org/10.5755/j01.sace.34.1.35674>

Circular renovation of an apartment building with prefabricated insulation elements

Nigumann, Eero; Kalamees, Targo; Kuusk, Kalle; Pihelo, Peep 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 96-97 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> https://www.ester.ee/record=b5668645*est

Classification of the energy production potential of water lens solar concentrators using machine learning

Zarrinkafsh, Hamidreza; Eslamirad, Nasim; De Luca, Francesco Journal of Physics: Conference Series 2021 / art. 012022, 6 p. : ill <https://doi.org/10.1088/1742-6596/2042/1/012022> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; Sell, Raivo IEEE Transactions on Intelligent Vehicles 2024 / 12 p
<https://doi.org/10.1109/TIV.2024.3454971>

CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving : preprint

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; Sell, Raivo arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2404.17793>

Coding the smart city : preface

Vainio, Teija; Hodson, Elise; Sayún, Michel Nader; Soe, Ralf-Martin Interaction design and architecture(s) 2021 / p. 59-62

https://ixdea.org/wp-content/uploads/ixDEA_art/50/50_P_fs2.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The collaboration dilemma in smart city projects : time to ask the right questions

Thabit Gonzalez, Sara; Mora, Luca Organization 2024 <https://doi.org/10.1177/13505084231183949> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative analysis of machine learning techniques for non-intrusive load monitoring

Shabbir, Noman; Vassiljeva, Kristina; Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Petlenkov, Eduard; Belikov, Juri Electronics 2024 / art. 1420 <https://doi.org/10.3390/electronics13081420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comparative analysis of NZEB energy performance requirements for residential buildings in Denmark, Estonia and Finland

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; Kurnitski, Jarek E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 14001, 12 p. : ill <https://doi.org/10.1051/e3sconf/202124614001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Comparative study of using periodic daily and long-term weather data for cooling system sizing and impact of thermal mass

Seyed Salehi, Seyed Shahabaldin; Kurnitski, Jarek; Thalfeldt, Martin E3S Web Conference: BuildSim Nordic 2022 2022 / art. 06002 <https://doi.org/10.1051/e3sconf/202236206002> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Composite surrogate for likelihood-free bayesian optimisation in high-dimensional settings of activity-based transportation models

Kuzmanovski, Vladimir; Hollmén, Jaakko Advances in Intelligent Data Analysis XIX : 19th International Symposium on Intelligent Data Analysis, IDA 2021, Porto, Portugal, April 26–28, 2021 : proceedings 2021 / p. 171-183 : ill https://doi.org/10.1007/978-3-030-74251-5_14 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Comprehensive comparison of isolated high step-up dc-dc converters for low power application

Pourjafar, Saeed; Afshari, Hossein; Mohseni, Parham; Husev, Oleksandr; Matiushkin, Oleksandr; Shabbir, Noman IEEE open journal of power electronics 2024 / p. 1149–1161 <https://doi.org/10.1109/OJPEL.2024.3433554>

Comprehensive workflow for documenting corporate commuting emissions : a university case study with two alternative approaches

Jiang, Qidi; Kurnitski, Jarek Proceedings of the 2nd international conference on advanced civil engineering and smart structures 2024 / p. 68-77 https://doi.org/10.1007/978-981-97-1514-5_8 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Computer aided corporate sense-making and prioritization for SDGs

Liiv, Innar; Karo, Erkki; Soe, Ralf-Martin The Ethics of Artificial Intelligence for the Sustainable Development Goals 2023 / p. 365-378 https://doi.org/10.1007/978-3-031-21147-8_20 https://link.springer.com/chapter/10.1007/978-3-031-21147-8_20

Congestion control strategies for increased renewable penetration of photovoltaic in LV distribution networks

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Husev, Oleksandr; Ahmadiyahangar, Roya; Wen, Fushuan; Kull, Karl Energy reports 2022 / p. 217-223 <https://doi.org/10.1016/j.egyr.2022.10.184> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Construction period moisture load on CLT - example of 5 CLT buildings

Kalbe, Kristo; Kuk, Villu; Kalamees, Targo Proceedings of the III Forum Wood Building Baltic, Riga Technical University, 09-10.05, 2022, Riga, Latvia 2022 / p. 42–43 <https://forumwoodbuilding.rtu.lv/wp-content/uploads/sites/37/2022/05/FWBB2022-2022.05.09-speakers-day-1-and-2.pdf>

Cooling thermal comfort and efficiency parameters of ceiling panels, underfloor cooling, fan-assisted radiators, and fan coil

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Energies 2022 / art. 4156 <https://doi.org/10.3390/en15114156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost savings and CO2 emissions reduction potential in the German district heating system with demand response

Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; Jokisalo, Juha; Kosonen, Risto; Janßen, Philipp; Li, Yantong; Schäfers, Hans; Nord, Natasa Science and Technology for the Built Environment 2022 / p. 255 - 274 <https://doi.org/10.1080/23744731.2021.2018875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A cyber attack taxonomy for microgrid systems

Bahsi, Hayretidin; Dola, Henry Ochieng; Khalil, Shaymaa Mamdouh; Korötko, Tarmo 2022 17th Annual System of Systems

Danish, Estonian and Finnish NZEB requirements comparison with European Commission recommendations for office buildings in Nordic and Oceanic climates

Simson, Raimo; Arumägi, Endrik; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** E3S Web Conferences : The 16th ROOMVENT Conference (ROOMVENT 2022) 2022 / art. 01017 <https://doi.org/10.1051/e3sconf/202235601017> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Data generative machine learning model for the assessment of outdoor thermal and wind comfort in a northern urban environment

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok Frontiers of architectural research 2023 / p. 541-555 : ill <https://doi.org/10.1016/j.foar.2022.12.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data-driven occupancy profile identification and application to the ventilation schedule in a school building

Vassiljeva, Kristina; Matson, Margarita; Ferrantelli, Andrea; Petlenkov, Eduard; Thalfeldt, Martin; Belikov, Juri Energies 2024 / art. 3080 <https://doi.org/10.3390/en17133080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Datanimeste suursündmus | Suurandmete konverentsil taas hulk nimekaid esinejaid

Kald, Indrek ituudised.ee 2023 [Datanimeste suursündmus | Suurandmete konverentsil taas hulk nimekaid esinejaid](#)

Decarbonization strategies of Helsinki metropolitan area district heat companies

Su, Yijie; **Hiltunen, Pauli; Syri, Sanna;** Khawid, Dilip Renewable and Sustainable Energy Reviews 2022 / Art. 112274 <https://doi.org/10.1016/j.rser.2022.112274> [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](#)

Demand response in the German district heating system

Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; **Jokisalo, Juha; Kosonen, Risto;** Janßenc, Philipp; Li, Yantong; Schafers, Hans; Nord, Natasa The 8th Conference of the Sustainable Solutions for Energy and Environment EENVIRO 2022 16/10/2022 - 21/10/2022 Bucharest, Romania 2023 / art. 012016 <https://doi.org/10.1088/1755-1315/1185/1/012016> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Demand response potential of district heating in a swimming hall in Finland

Yuan, Xiaolei; Lindroos, Leo; **Jokisalo, Juha; Kosonen, Risto;** Pan, Yiqun; Jin, Hui Energy and buildings 2021 / art. 111149, 12 p. : ill <https://doi.org/10.1016/j.enbuild.2021.111149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of mathematical skills : variable- and person-oriented approaches

Mädamürk, Kaja; Kikas, Eve 2023 AERA Annual Meeting, Chicago, 13.04-16.04.2023 2023 / 14 p. : ill <https://doi.org/10.3102/2013036>

Devising an urban learning centre for municipalities in Eastern Partnership countries

Schuch de Azambuja, Luiza; Soe, Ralf-Martin New Sustainable Horizons in Artificial Intelligence and Digital Solutions : 22nd IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2023, Curitiba, Brazil, November 9–11, 2023, Proceedings 2023 / p. 403-417 https://doi.org/10.1007/978-3-031-50040-4_30 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Distributed average integral control based energy management model

Shaukat, Neelofar; Khan, Bilal; Qureshi, Muhammad Bilal; Jawad, Muhammad; **Shabbir, Noman; Daniel, Kamran** 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 5 p <https://doi.org/10.1109/ETFG55873.2023.10407358>

Eesti elektri tarbimiskaja ja tootva tarbimise simulatsioonialüüs : uuringuaruanne

Kisel, Einari; Kuhi-Thalfeldt, Reeli; Agabus, Hannes; Vesikioja, Kaija 2024 https://arenguseire.ee/wp-content/uploads/2024/06/2024_eesti-elektri-tarbimiskaja-ja-tootva-tarbimise-simulatsioonialuus_uuring.pdf

Eesti teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks

postimees.ee 2023 [Eesti teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks](#)

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](#)

Effect of aggregation methods in fuzzy technique for prioritization of criteria of automated vehicle system

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo AIP conference proceedings 2024 / art. 020011 <https://doi.org/10.1063/5.0189323>

The effect of temperature, humidity and mechanical properties on crack formation on external thin plasters of ETICS
Volkova, Kristina; Põldaru, Mattias; Ilomets, Simo; Kalamees, Targo; Talvik, Martin; Heim, Dariusz Journal of physics : conference series 2021 / art. 012025, 8 p. : ill <https://doi.org/10.1088/1742-6596/2069/1/012025> [Conference Proceedings at Scopus](#)
[Article at Scopus](#)

Effect of the urban microenvironment on the indoor air temperature of the residential building stock in the Helsinki region
Kravchenko, Iliia; Farahani, Azin Velashjerdi; **Kosonen, Risto;** Kilpeläinen, Simo; Saranko, Olli; Fortelius, Carl Building and Environment 2023 / art. 110971 <https://doi.org/10.1016/j.buildenv.2023.110971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of a mobile disturbance pattern on dynamic patch networks and metapopulation persistence
Fabritius, Eeva Henna Helena; de Knegt, Henrik; Ovaskainen, Otso Ecological modelling 2021 / art. 109738
<https://doi.org/10.1016/j.ecolmodel.2021.109738> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of night ventilation on indoor air quality in educational buildings—a field study
Lestinen, Sami; Kilpeläinen, Simo; **Kosonen, Risto;** Valkonen, Maria; **Jokisalo, Juha;** Pasanen, Pertti Applied sciences 2021 / art. 4056, 20 p. : ill <https://doi.org/10.3390/app11094056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Einari Kisel: meie naabriteks on odavenergia tšempionid
Kisel, Einari toostusuudised.ee 2024 [Einari Kisel: meie naabriteks on odavenergia tšempionid](#)

Elanikud targa linna loomise juures
Sarv, Lill Sirp 2022 / lk. 28-29 : fot <https://www.sirp.ee/s1-artiklid/c21-teadus/elanikud-targa-linna-loomise-juures/>

Electricity market impacts of low-carbon energy transition in the Nordic-Baltic region
Farsaei, Anahita; Olkkonen, Ville; Kan, Xiaoming; **Syri, Sanna** Journal of Sustainable Development of Energy, Water and Environment Systems 2022 / art. 1090407 <https://doi.org/10.13044/j.sdewes.d9.0407> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electroencephalography as an objective indicator of stress
Gavriljuk, Marietta; Uudeberg, Tuuli; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Bachmann, Maie 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 221–226
https://doi.org/10.1007/978-3-031-37132-5_28 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Emissions and power demand in optimal energy retrofit scenarios of the Finnish building stock by 2050
Hirvonen, Janne; Heljo, Juhani; **Jokisalo, Juha;** Kurvinen, Antti; Saari, Arto; Niemelä, Tuomo; Sankelo, Paula; **Kosonen, Risto** Sustainable cities and society 2021 / art. 102896, 22 p. : ill <https://doi.org/10.1016/j.scs.2021.102896> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

End-to-end multimodal sensor dataset collection framework for autonomous vehicles
Gu, Junyi; Lind, Artjom; Chhetri, Tek Raj; **Bellone, Mauro; Sell, Raivo** Sensors 2023 / art. 6783, 25 p. : ill
<https://doi.org/10.3390/s23156783> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy and hygrothermal performance challenges in the renovation of a over 100-year-old wooden apartment building into a nearly zero-energy building
Evard, Anni; Arumägi, Endrik; Lomp, Siim; Kalamees, Targo 2nd International Conference on Moisture in Buildings 2023, 3-4 July 2023 2023 / 2 p <https://doi.org/10.14293/ICMB230053>

Energy performance certificate classes rating methods tested with data : how does the application of minimum energy performance standards to worst-performing buildings affect renovation rates, costs, emissions, energy consumption?
Ferrantelli, Andrea; Kurnitski, Jarek Energies 2022 / art. 7552 <https://doi.org/10.3390/en15207552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metric at WOS](#) [Article at WOS](#)

Energy storage facilities impact on flexibility of active distribution networks: stochastic approach
Alipour, Manijeh; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako** Electric power systems research 2022 / art. 108645 <https://doi.org/10.1016/j.epsr.2022.108645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy, cost and emission saving potential of demand response and peak power limiting in the German district heating system
Suhonen, Janne; Lindholm, Joakim; Verbeck, Moritz; **Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto;** Janßen, Philipp; Schäfers, Hans International journal of sustainable energy 2023 / p. 1092-1127 : ill <https://doi.org/10.1080/14786451.2023.2251601> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing mobility as a service with autonomous last-mile shuttles and data exchange layer for public transport
Kalda, Krister; Sell, Raivo; Kivimäe, Martin Modern materials and manufacturing 2023 : Tallinn, Estonia, 2-4 May 2023 2024 / art. 020006 <https://doi.org/10.1063/5.0189880> [Article at Scopus](#) [Conference Proceedings at Scopus](#)

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management
Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Daniel, Kamran; Jawad, Muhammad; Husev, Oleksandr; Rosin, Argo; Martins, Joao Applied energy 2024 / art. 123770 <https://doi.org/10.1016/j.apenergy.2024.123770>

Enhancing transmission line reliability : an AI-driven approach to fault identification and classification
Shabbir, Noman; Kamran, Daniel; Raja, Hadi Ashraf Electronics 2024

Error messages in relational database management systems : a comparison of effectiveness, usefulness, and user confidence
Taipalus, Toni; Grahn, Hilkka; **Ghanbari, Hadi** Journal of systems and software 2021 / art. 111034, 15 p.: ill <https://doi.org/10.1016/j.jss.2021.111034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimation of peak voltage value and its occurrence timing upon non-sinusoidal supply voltage
Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; **Shabbir, Noman; Jarkovoi, Marek** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / p. 1-6 <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604412>

Estonian Human Development Report 2023 : mental health and well-being
2023 <https://doi.org/10.58009/aere-perennius0044>

Estonian president: Solutions modeled by researchers will help rebuild Ukrainian cities
baltictimes.com 2023 [Estonian president: Solutions modeled by researchers will help rebuild Ukrainian cities](#)

Euroopa Liit toetab Eesti elanike roheoskuste arendamist 15 miljoni euroga
rohe.geenius.ee 2024 [Euroopa Liit toetab Eesti elanike roheoskuste arendamist 15 miljoni euroga](#)

Experimental evaluation of IDA ICE and COMSOL models for an asymmetric borehole thermal energy storage field in Nordic climate
Xue, Tianchen; **Jokisalo, Juha; Kosonen, Risto;** Vuolle, Mika; Marongiu, Federica; Vallin, Sami; Leppäharju, Nina; Arola, Teppo Applied thermal engineering 2022 / art. 119261, 15 p. : ill <https://doi.org/10.1016/j.applthermaleng.2022.119261> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exploratory data analysis for demand-side flexibility quantification
Shahid, Arqum; Ahmadiyahangar, Roya; Rosin, Argo; Maask, Vahur; Martins, João F. 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227408>

Extending the “Smart City” concept to small-to-medium sized Estonian municipalities: initiatives and challenges faced
Fröhlich, K. A.; Soe, Ralf-Martin; Maoneke, P.B.; Jain, K.; Pinomaa, A.; Nieminen, M. Information Systems : 19th European, Mediterranean, and Middle Eastern Conference, EMCIS 2022, Virtual Event, December 21–22, 2022 : proceedings 2023 / p. 264–276 https://doi.org/10.1007/978-3-031-30694-5_20 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Failure consequence evaluation of uncontrollable district heating network
Mao, Ding; Wang, Peng; **Ju, Yuchen;** Ni, Long Sustainable cities and society 2022 / art. 103593, 16 p. : ill <https://doi.org/10.1016/j.scs.2021.103593> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feasibility study of a DC house connected to a conventional AC distribution network
Hokmabad, Hossein Nouroollahi; Shabir, Noman; Astapov, Victor; Petlenkov, Eduard; Husev, Oleksandr; Belikov, Juri 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604419>

Fractional order sliding mode controller based on supervised machine learning techniques for speed control of PMSM
Zahraoui, Younes; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Mubin, Marizan; Tang, Jing Rui; Zaihidee, Ezrinda M. Mathematics 2023 / art. 1457 <https://doi.org/10.3390/math11061457> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Framework for connecting the mobility challenges in low density areas to smart mobility solutions: the case study of Estonian municipalities
Agriesti, Serio Angelo Maria; Soe, Ralf-Martin; Saif, Muhammad Atiullah European transport research review 2022 / art. 32 <https://doi.org/10.1186/s12544-022-00557-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

From near real-time urban data to an explainable city-scale model to help reduce the Urban Heat Island (UHI) effect
Eslamirad, Nasim; De Luca, Francesco; Ben Yahia, Sadok; Lylykangas, Kimmo Sakari Journal of Physics: Conference Series 2023 / art. 092012, p. 1-6 : ill <https://doi.org/10.1088/1742-6596/2600/9/092012> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Geoprocess of geospatial urban data in Tallinn, Estonia

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok Data in brief 2023 / art. 109172, 13 p. : ill <https://doi.org/10.1016/j.dib.2023.109172> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A global survey of standardization and industry practices of automotive cybersecurity validation and verification testing processes and tools

Roberts, Andrew James; Marksteiner, Stefan; Soyuturk, Mujdat; Yaman, Berkay; Yang, Yi SAE international journal of connected and automated vehicles 2023 / art. 12-07-02-0013 <https://doi.org/10.4271/12-07-02-0013> [Journal metrics at Scopus](#) [Article at Scopus](#)

Gray box time variant clogging behaviour and pressure drop prediction of the air filter in the HVAC system

Alimohammadi, Hossein; Vassiljeva, Kristina; Petlenkov, Eduard; Thalfeldt, Martin; Mikola, Alo; Kull, Tuule Mall; Köse, Ahmet E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 10002 <https://doi.org/10.1051/e3sconf/202124610002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Grid-connected solar PV power plants optimization: a review

Zidane, Tekai Eddine Khalil; Aziz, Ali Saleh; Zahraoui, Younes; Kotb, Hossam; Aboras, Kareem M.; Kitmo; Jember, Yosef Berhan IEEE Access 2023 / p. 79588-79608 <https://doi.org/10.1109/ACCESS.2023.3299815> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heat loss characteristics of typology-based apartment building external walls for a digital twin-based renovation strategy tool

Ilste, Elisa; Lomp, Siim; Pikas, Ergo; Arumägi, Endrik; Hallik, Jaanus; Öiger, Karl; Kisel, Einari; Liiv, Innar; Kalamees, Targo Journal of Physics: Conference Series 2023 / 8 p <https://doi.org/10.1088/1742-6596/2654/1/012125> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Heat loss due to domestic hot water pipes

Hamburg, Anti; Mikola, Alo; Parts, Tuule Mall; Kalamees, Targo Energies 2021 / art. 6446 <https://doi.org/10.3390/en14206446> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heat recovery ventilation solutions for school building renovation

Kuivjõgi, Helena; Sarevet, Henri; Thalfeldt, Martin; Kurnitski, Jarek CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in Rotterdam, The Netherlands 2022 / p. 1-8 <https://doi.org/10.34641/clima.2022.208>

Heat recovery ventilation system heating energy weather normalization – calculation method and case study

Kuivjõgi, Helena; Laaneste, Janar; Thalfeldt, Martin; Kurnitski, Jarek E3S Web Conference: BuildSim Nordic 2022 2022 / art. 09003 <https://doi.org/10.1051/e3sconf/202236209003> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Heating energy-saving potentials in HVAC system of swimming halls : a review

Yuan, Xiaolei; Chen, Zhisen; Liang, Yumin; Pan, Yiqun; Jokisalo, Juha; Kosonen, Risto Building and environment 2021 / art. 108189, 18 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heating sizing power reduction in buildings connected to district heating with dynamically controlled DHW setback and flow limiters

Hajian, Hatem; Simson, Raimo; Kurnitski, Jarek Energies 2022 / art. 5278 <https://doi.org/10.3390/en15145278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Helen Sooväli-Sepping: kliimaseadus sõnastab uued Eestis elamise ja tegutsemise põhimõtted

Sooväli-Sepping, Helen delfi.ee 2024 [Helen Sooväli-Sepping: kliimaseadus sõnastab uued Eestis elamise ja tegutsemise põhimõtted](#)

Helen Sooväli-Sepping: roheoskused on tuleviku töökeskkonnas uus normaalsus

Sooväli-Sepping, Helen err.ee 2024 [Helen Sooväli-Sepping: roheoskused on tuleviku töökeskkonnas uus normaalsus](#)

Hoonete energiatõhusust määrav digiaudit jõuab kinnisvaraomanikeni

postimees.ee 2024 [Hoonete energiatõhusust määrav digiaudit jõuab kinnisvaraomanikeni Kuhu kulub hoones energia? Eesti teadlaste loodud lahendus teab täpselt](#)

Hoonete rekonstrueerimise pikaajaline strateegia

2020 <https://www.mkm.ee/media/155/download>

Hygrothermal performance of AAC exterior wall after additional insulation with prefabricated elements in Estonia

Pihelo, Peep; Kalamees, Targo 5th Central European Symposium On Building Physics (CESBP) 2023 / p. 020049-1-020049-8

<https://doi.org/10.1063/5.0170884> Conference proceedings at Scopus Article at Scopus

Idavirulased on oodatud osa saama targa linna lahendustest

Põhjarannik 2023 / Lk. 7 [Idavirulased on oodatud osa saama targa linna lahendustest](#)

Identifying relationships between personal social networks and spatial mobility : A study using smartphone tracing and related surveys

Puura, Anniki; Silm, Siiri; **Masso, Anu** Social networks 2022 / p. 306-317 <https://doi.org/10.1016/j.socnet.2021.08.008> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of built-in moisture on the design of hygrothermally safe cross-laminated timber external walls : a stochastic approach

Kukk, Villu; Kers, Jaan; Kalamees, Targo; Wang, Lin; **Ge, Hua** Building and environment 2022 / art. 109736

<https://doi.org/10.1016/j.buildenv.2022.109736> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of internal heat gain profiles on the design cooling capacity of landscaped offices

Seyed Salehi, Seyed Shahabaldin; Ferrantelli, Andrea; Aljas, Hans Kristjan; Kurnitski, Jarek; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 07003, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124607003> Conference Proceedings at Scopus Article at Scopus Article at WOS

Impact of office tenants' electricity use on the cost-optimal solutions in a cold climate

Kuivjõgi, Helena; Laas, Liina; Ferrantelli, Andrea; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 05001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124605001> Conference Proceedings at Scopus Article at Scopus Article at WOS

Implications of digitalization in facilitating socio-technical energy transitions in Europe

Veskioja, Kaija; Soe, Ralf-Martin Energy research & social science 2022 / art. 102720 <https://doi.org/10.1016/j.erss.2022.102720> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improving Residential Load Forecasting : A Probabilistic Tree-based Approach for Multi-Step Ahead Prediction

Shabbir, Noman; Daniel, Kamran; Jawad, M.; **Rosin, Argo; Martins, J.** International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST) 2025

Indoor temperature conditions and energy demand of a Finnish detached house in a changing climate

Farahani, Azin Velashjerdi; **Jokisalo, Juha;** Korhonen, Natalia; **Kosonen, Risto** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 15001, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124615001> Conference proceedings at Scopus Article at Scopus Article at WOS

Influence of CLT wetting during the construction phase on the crack formation and air leakages in the CLT

Kalbe, Kristo; Kukk, Villu; Kalamees, Targo AIP conference proceedings 2023 / p. 020028-1-020028-8 <https://doi.org/10.1063/5.0171342> Conference proceedings at Scopus Article at Scopus

Influence of mental stress on the arterial stiffness parameters detected from photoplethysmographic signal waveform

Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Allik, Ardo; Uudeberg, Tuuli 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 4 p <https://doi.org/10.1109/BEC56180.2022.9935609>

Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units

Mahmoudnezhad, Fayeze; Mirzaei, Mohammad Amin; Plaum, Freddy; Ahmadiyahangar, Roya; Kilter, Jako; Rosin, Argo 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860>

Institutionalising smart city research and innovation : from fuzzy definitions to real-life experiments

Soe, Ralf-Martin; Schuch de Azambuja, Luiza; Toiskallio, Kalle; Nieminen, Marko; Batty, Michael Urban Research & Practice 2021 / p. 112-154 <https://doi.org/10.1080/17535069.2021.1998592> 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 metrics at WOS Article at WOS

Kuidas viia Eestis sujuvalt läbi renoveerimislaine?

Kisel, Einari; Kalamees, Targo; Pikas, Ergo; Liiv, Innar; Arumägi, Endrik Mente et Manu 2023 / lk. 40-41 : fot https://www.ester.ee/record=b1242496*est

Language of driving for autonomous vehicles

Kalda, Krister; Pizzagalli, Simone Luca; Soe, Ralf-Martin; Sell, Raivo; Bellone, Mauro Applied sciences 2022 / art. 5406
<https://doi.org/10.3390/app12115406> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Leveraging the machine learning techniques for demand-side flexibility - a comprehensive review

Shahid, Arqum; Ahmadiyahangar, Roya; Rosin, Argo; Blinov, Andrei; Korõtko, Tarmo; Vinnikov, Dmitri Electric power systems research 2025 / art. 111185 <https://doi.org/10.1016/j.epr.2024.111185>

LiDAR-camera fusion based object segmentation in adverse weather conditions for autonomous driving

Gu, Junyi; Lind, Artjom; Bellone, Mauro AIP Conference Proceedings 2023

Lidar-camera semi-supervised learning for semantic segmentation

Caltagirone, Luka; Bellone, Mauro; Svensson, Lennart; Wahde, Mattias; Sell, Raivo Sensors 2021 / art. 4813
<https://doi.org/10.3390/s21144813> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lifetime-oriented control strategies for hybrid energy storage systems in an islanded microgrid

Cinay, Nazli; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Ahmadiyahangar, Roya; Biechl, Helmuth 2021 22nd IEEE International Conference on Industrial Technology (ICIT) : proceedings 2021 / p. 1-6 <https://doi.org/10.1109/ICIT46573.2021.9453617>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Linnaplaneerimise heaolu skoor mõõdab, mida linnaelanikud tegelikult tunnevad

Fridolin, Ivo; Pilt, Kristjan; Bachmann, Maie; Grišakov, Kristi; Tärnov, Külle; Sternfeldt, Silver Mente et Manu 2022 / lk. 24-26 : fot https://www.ester.ee/record=b1242496*est

Load current harmonic model complexity reduction through empirical pattern analysis

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Jarkovoi, Marek; Parker, Martin 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6
<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227474>

Low-temperature waste heat enabling abandoning coal in Espoo district heating system

Hiltunen, Pauli; Syri, Sanna Energy 2021 / art. 120916, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.120916> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Machine learning approach versus prediction formulas to design healthy dwellings in a cold climate

Sepulveda Luque, Abel; Eslamirad, Nasim; De Luca, Francesco eCAADe 2023 : Digital Design Reconsidered : Proceedings of the 41st Conference on Education and Research in Computer Aided Architectural Design in Europe ; vol. 2 Proceedings of the International Conference on Education and Research in Computer Aided Architectural Design in Europe 2023 / p. 359-368
<https://doi.org/10.52842/conf.ecaade.2023.2.359> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Machine learning-based optimization design workflow based on obstruction angles for building facades

Sepulveda Luque, Abel; Eslamirad, Nasim; Seyed Salehi, Seyed Shahabaldin; Thalfeldt, Martin; De Luca, Francesco Regenerating the City Performance-driven and Simulation-based Computational Design for Sustainable Cities and Communities : proceedings of the 9th Regional International Symposium on Education and Research in Computer Aided Architectural Design in Europe, Tallinn University of Technology, 15-16 June 2023 2023 / p. 15-24 <https://digikogu.taltech.ee/et/Item/c29fc911-ec34-45da-afe6-bc1e8515e15d>

Market mechanisms and trading in microgrid local electricity markets : a comprehensive review

Zahraoui, Younes; Korõtko, Tarmo; Rosin, Argo; Agabus, Hannes Energies 2023 / art. 2145, 52 p. : ill
<https://doi.org/10.3390/en16052145> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methodology for improving wind comfort in a cold region through modular urban elements

Eslamirad, Nasim; De Luca, Francesco; Sepulveda Luque, Abel; Lylykangas, Kimmo Sakari Regenerating the city : performance-driven and simulation-based computational design for sustainable cities and communities 2023 / p. 5-14
<https://digikogu.taltech.ee/et/Item/c29fc911-ec34-45da-afe6-bc1e8515e15d>

Microgrid oriented modeling of space heating system based on neural networks

Häring, Tobias; Kull, Tuule Mall; Ahmadiyahangar, Roya; Rosin, Argo; Thalfeldt, Martin; Biechl, Helmuth Journal of building engineering 2021 / art. 103150, 12 p. : ill <https://doi.org/10.1016/j.job.2021.103150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mini-pilots public value framework for cities

Soe, Ralf-Martin Transport economics and management 2023 / p. 86-93 <https://doi.org/10.1016/j.team.2023.07.001>

A model-based LQR control of an obstacle avoidance maneuver of a self-driving car

Astrov, Igor; Udal, Andres; Pikner, Heiko; Malayjerdi, Ehsan 2022 IEEE 20th Jubilee World Symposium on Applied Machine Intelligence and Informatics (SAMI) : Poprad, Slovakia, 2-5 March 2022 2022 / p. 473-478 : ill
<https://doi.org/10.1109/SAMI54271.2022.9780755>

Modelling of odour dispersion from multiple point sources

Palmiste, Ülar; Kurnitski, Jarek; Laanearu, Janek IX International Symposium on Stratified Flows : abstracts 2022 / p. 77
https://www.dropbox.com/s/em57tmg3ivcv5a/Abstract_book_Opt.pdf?dl=0

Modelling of wax actuators in underfloor heating manifolds

Kull, Tuule Mall; Thalfeldt, Martin; Kurnitski, Jarek E3S Web Conference : Cold Climate HVAC and Energy 2021 2021 / art. 11009, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124611009> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Multi-algorithm-based urban tree information extraction and its applications in urban planning : research note

Yao, Chaowen; Fabritius, Eeva Henna Helena; Fricker, Pia; Dembski, Fabian Landscape and urban planning 2025 / art. 105226
<https://doi.org/10.1016/j.landurbplan.2024.105226>

Multi-objective optimization of a plate heat exchanger thermal energy storage with phase change material

Taghavi, Mehrdad; Ferrantelli, Andrea; Joronen, Tero Journal of energy storage 2024 / art. 111645
<https://doi.org/10.1016/j.est.2024.111645>

Narrowing the implementation gap : user-centered design of new e-planning tools

Nummi, Pilvi; Prilenska, Viktorija; Grišakov, Kristi; Fabritius, Eeva Henna Helena; Ilves, Laugren; Kangassalo, Petri; Staffans, Aija; Tan, Xunran International journal of e-planning research (JEPR) 2022 / p. 1-22 <https://doi.org/10.4018/JEPR.315804>

Neural network control of vehicles : modeling and simulation

Astrov, Igor 2022 <https://doi.org/10.52305/GXGD6357> https://www.ester.ee/record=b5642329*est

A new method to estimate point thermal transmittance based on combined two-dimensional heat flow calculation

Hallik, Jaanus; Kalamees, Targo E3S Web Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) 2020 / art. 08005, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017208005> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

New typical meteorological year generation method based on long-term building energy simulations

Seyed Salehi, Seyed Shahabaldin; Kalamees, Targo; Kurnitski, Jarek; Thalfeldt, Martin Building and environment 2024 / art. 111504 <https://doi.org/10.1016/j.buildenv.2024.111504>

Non-intrusive load monitoring based smart energy management system for smart buildings

Jawad, Muhammad; Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Khaleel, T.; Tahir, W. 2024 7th International Conference on Information and Computer Technologies (ICICT) : proceedings 2024 / p. 46-50
<https://doi.org/10.1109/ICICT62343.2024.00014>

A Novel Vision Transformer for Camera-LiDAR Fusion based Traffic Object Segmentation

Tahves, Toomas; Gu, Junyi; Bellone, Mauro; Sell, Raivo Proceedings of the 17th International Conference on Agents and Artificial Intelligence : Volume 2 2025 / p. 566-573 <https://doi.org/10.5220/0013239000003890>

NZEB and market-based renovation case study of an existing office building

Kuivjõgi, Helena; Kurnitski, Jarek; Uutar, Aivar; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 05002, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124605002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

NZEB Requirements vs European Benchmarks in Residential Buildings

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** REHVA European HVAC Journal 2021 / p. 40-44 : ill <https://www.rehva.eu/rehva-journal/chapter/nzeb-requirements-vs-european-benchmarks-in-residential-buildings>

Numerical analysis of additional heat loss induced by air cavities between insulation boards due to non-ideality

Hallik, Jaanus; Klõšeiko, Paul; Piir, Reimo; Kalamees, Targo Journal of building engineering 2022 / art. 05221
<https://doi.org/10.1016/j.jobe.2022.105221> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical modeling and validation of a large-scale borehole thermal energy storage system in Finland

Xue, Tianchen; Jokisalo, Juha; Kosonen, Risto; Vuolle, Mika; Marongiu, Federica; Vallin, Sami; Leppäharju, Nina; Arola, Teppo E3S Web of Conferences : BuildSim Nordic 2022 2022 / art. 06003 <https://doi.org/10.1051/e3sconf/202236206003> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Object segmentation for autonomous driving using iseAuto data

Gu, Junyi; Bellone, Mauro; Sell, Raivo; Lind, Artjom Electronics (Switzerland) 2022 / Art. 1119
<https://doi.org/10.3390/electronics11071119> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ole kaasas : linnad lähevad jälle mitme projekti võrra targemaks

Tärnov, Külle; Lehis, Reili; Ilu, Anne Mente et Manu 2023 / lk. 38-39 https://www.ester.ee/record=b1242496*est

Operation of district heat network in electricity and balancing markets with the power-to-heat sector coupling

Javanshir, Nima; Syri, Sanna; Tervo, Seela; **Rosin, Argo** Energy 2023 / art. 126423 <https://doi.org/10.1016/j.energy.2022.126423>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An optimal control method for an autonomous surface vessel for environment monitoring and cargo transportation applications

Astrov, Igor; Udal, Andres; Mölder, Heigo 2021 25th International Conference Electronics : Proceedings of the 25th International Conference : ELECTRONICS 2021, Kaunas University of Technology, 14th–16th June, 2021, Palanga, Lithuania 2021 / 6 p
<https://doi.org/10.1109/IEEECONF52705.2021.9467483>

Optimal operation of district heat network in electricity and balancing markets

Javanshir, Nima; Syri, Sanna; **Tervo, Seela; Rosin, Argo** SSRN 2022 / 38 | <https://doi.org/10.2139/ssrn.4074474>

Optimal strategy for comfort-based home energy management system considering impact of battery degradation cost model

Han, Binghui; **Zahraoui, Younes**; Mubin, Marizan; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex Mathematics 2023 / art. 1333 <https://doi.org/10.3390/math11061333> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal tuning of fractional order sliding mode controller for PMSM speed using neural network with reinforcement learning

Zahraoui, Younes; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Alhamrouni, Ibrahim; Seyedmahmoudian, Mehdi; Stojcevski, Alex Energies 2023 / art. 4353 <https://doi.org/10.3390/en16114353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Organizational performance evaluation and performance paradox in CCI organizations

Sassi, Marge; Pihlak, Ülle; Birnkraut, Gesa International Journal of Productivity and Performance Management 2022 / p. 2009 - 2030
<https://doi.org/10.1108/JPPM-08-2019-0399> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Outdoor thermal comfort optimization in a cold climate to mitigate the level of urban heat island in an urban area

Eslamirad, Nasim; Sepulveda Luque, Abel; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok Energies 2023 / art. 4546, 28 p. : ill <https://doi.org/10.3390/en16124546> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overheating risk and energy demand of nordic old and new apartment buildings during average and extreme weather conditions under a changing climate

Farahani, Azin Velashjerdi; **Jokisalo, Juha**; Korhonen, Natalia; Jylhä, Kirsti; Ruosteenoja, Kimmo; **Kosonen, Risto** Applied sciences 2021 / art. 3972, 25 p. : ill <https://doi.org/10.3390/app11093972> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance assessment of ventilative and radiant cooling systems in office buildings during extreme weather conditions under a changing climate

Velashjerdi Farahani, Azin; **Jokisalo, Juha**; Korhonen, Natalia; Jylhä, Kirsti; **Kosonen, Risto**; Lestinen, Sami Journal of building engineering 2022 / art. 104951, 22 p. : ill <https://doi.org/10.1016/j.jobe.2022.104951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance based core sustainability metrics for university campuses developing towards climate neutrality : a robust PICSO framework

Jiang, Qidi; **Kurnitski, Jarek** Sustainable cities and society 2023 / art. 104723 <https://doi.org/10.1016/j.scs.2023.104723> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance of modern passive stack ventilation in a retrofitted Nordic apartment building

Kravchenko, Iliia; **Kosonen, Risto; Jokisalo, Juha**; Kilpeläinen, Simo Buildings 2022 / art. 96, 27 p. : ill <https://doi.org/10.3390/buildings12020096> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Piloting smart city solutions in very small, small and medium-sized municipalities. The Estonian case study

Sarv, Lill; Soe, Ralf-Martin ICEGOV '22 : Proceedings of the 15th International Conference on Theory and Practice of Electronic Governance 2022 / p. 475-482 <https://doi.org/10.1145/3560107.3560179> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Pitfalls of machine learning methods in smart grids : a legal perspective

Antonov, Alexander; Häring, Tobias; Korötko, Tarmo; Rosin, Argo; Kerikmäe, Tanel; Biechl, Helmuth 2021 International Symposium on Computer Science and Intelligent Controls : (ISCSIC 2021), 12-14 November 2021, Rome, Italy : proceedings 2021 / p. 248-256 <https://doi.org/10.1109/ISCSIC54682.2021.00053>

Polyverif : an open-source environment for autonomous vehicle validation and verification research acceleration

Razdan, Rahul; Akbas, Mustafa Ilhan; **Sell, Raivo; Bellone, Mauro**; Menase, Mahesh; **Malayjerdi, Mohsen** IEEE Access 2023 / p. 28343-28354 <https://doi.org/10.1109/ACCESS.2023.3258681> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

Practical path planning techniques in overtaking for autonomous shuttles

Malayjerdi, Ehsan; Sell, Raivo; Malayjerdi, Mohsen; Udal, Andres; Bellone, Mauro Journal of field robotics 2022 / p. 410-425
<https://doi.org/10.1002/rob.22057> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A predictive compact model of effective travel time considering the implementation of first-mile autonomous mini-buses in smart suburbs

Udal, Andres; Sell, Raivo; Kalda, Krister; Antov, Dago Smart Cities 2024 / p. 3914-3935 <https://doi.org/10.3390/smartcities7060151>

President Alar Karis külastas FinEst Targa Linna Tippkeskust

goodnews.ee 2023 [President Alar Karis külastas FinEst Targa Linna Tippkeskust](#)

Prügikastid ajavad üle? Suplusvee kvaliteet kõigub? Teadlased tulevad appi

Erala, Siiri Pärnu Postimees 2024 / Lk. 4 <https://dea.digar.ee/article/parnupostimees/2024/03/28/14>

Real-time multi-modal active vision for object detection on UAVs equipped with limited field of view LiDAR and camera

Shi, Chuanbeibei; Lai, Ganghua; Yu, Yushu; Bellone, Mauro; Lippiello, Vincezo IEEE Robotics and Automation Letters 2023 / p. 6571 - 6578 <https://doi.org/10.1109/LRA.2023.3309575> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A real-time simulation for P2P energy trading using a distributed algorithm

Zahraoui, Younes; Korōtko, Tarmo; Rosin, Argo; Khalil Zidane, T. E.; Mekhilef, Saad IEEE Access 2024 / p. 44135-44146
<https://doi.org/10.1109/ACCESS.2024.3369899>

Rebuilding green infrastructure in boreal production forest given future global wood demand

Moor, Helen; Eggers, Jeannette; Fabritius, Eeva Henna Helena; Forsell, Nicklas; Henckel, Laura; Bradter, Ute; Mazziotta, Adriano; Nordén, Jenni; Snäll, Tord Journal of applied ecology 2022 / p. 1659-1669 <https://doi.org/10.1111/1365-2664.14175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The relationship between ethno-linguistic composition of social networks and activity space : a study using mobile phone data

Silm, Siiri; Mooses, Veronika; Puura, Anniki; Masso, Anu; Tominga, Ago; Saluveer, Erki Social Inclusion 2021 / p. 192-207 : ill
<https://doi.org/10.17645/si.v9i2.3839> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Renovation results of Finnish single-family renovation subsidies : oil boiler replacement with heat pumps

Sankelo, Paula; Ahmed, Kaiser; Mikola, Alo; Kurnitski, Jarek Energies 2022 / art. 7620 <https://doi.org/10.3390/en15207620> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Replication and upscaling of Smart Cities in Academia and practice: concepts, barriers and enablers

Soe, Ralf-Martin 24th Annual International Conference on Digital Government Research: dg.o 2023 : Together in the unstable world: Digital government and solidarity, Gdańsk, Poland, 11-14 July, 2023 : proceedings 2023 / p. 115-121
<https://doi.org/10.1145/3598469.3598481>

Residential DC load forecasting using long short-term memory network (LSTM)

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr; Jalakas, Tanel; Martins, Joao 2023 IEEE 11th International Conference on Smart Energy Grid Engineering (SEGE) 2023 / p. 131-136
<https://doi.org/10.1109/SEGE59172.2023.10274596>

Residential energy flexibility characterization using non-intrusive load monitoring

Azizi, Elnaz; Ahmadiyahangar, Roya; Rosin, Argo; Martins, Joao; Lopes, Rui Amaral; Beheshti, M. TH.; Bolouki, Sadegh Sustainable cities and society 2021 / art. 103321, 12 p. : ill <https://doi.org/10.1016/j.scs.2021.103321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Responsible AI for cities : a case study of GeoAI in African informal settlements

Tonnarelli, Francesco; Mora, Luca Journal of urban technology 2025 / 27 p <https://doi.org/10.1080/10630732.2025.2450755>

A review of harmonic detection, suppression, aggregation and estimation techniques

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Raja, Hadi Ashraf; Sardar, Muhammad Usman Applied sciences 2024 / art. 10966 <https://doi.org/10.3390/app142310966> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robot bus low-level control system transformation to an open-source solution

Pikner, Heiko; Sell, Raivo; Gu, Junyi Modern Materials and Manufacturing 2023 : Tallinn, Estonia, 2-4 May 2023 2024 / art. 020004 <https://doi.org/10.1063/5.0189277> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Scenario-based Validation for Autonomous Vehicles with Different Fidelity Levels

Malayjerdi, Mohsen; Kaljavesi, Gemb; Diermeyer, Frank; **Sell, Raivo** 2023 IEEE Conference on Intelligent Transportation Systems (ITSC 2023) 2023 / 6 p <https://doi.org/10.1109/ITSC57777.2023.10422403>

Seasonal storage of residential exhaust air and sewage waste heat

Hirvonen, Janne; **Jokisalo, Juha; Kosonen, Risto** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 06009, 7 p <https://doi.org/10.1051/e3sconf/202124606009> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Self-driving shuttle bus use case in city of Tallinn

Kalda, Krister; Sell, Raivo; Soe, Ralf-Martin IOP conference series : materials science and engineering 2021 / art. 012047, 6 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012047>

Semi-parametric approach to random forests for high-dimensional bayesian optimisation

Kuzmanovski, Vladimir; Hollmén, Jaakko Discovery Science : 25th International Conference, DS 2022, Montpellier, France, October 10–12, 2022, Proceedings 2022 / p. 418 - 428 https://doi.org/10.1007/978-3-031-18840-4_30 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Short-term PV energy generation forecasting using deep learning

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Astapov, Victor; Kilter, Jako Telematique 2022 <https://www.provinciajournal.com/index.php/telematique/article/view/813>

Short-term residential DC load forecasting using extreme gradient boost (XgBoost) algorithm

Shabbir, Noman; Husev, Oleksandr; Daniel, Kamran; Jawad, Muhammad; **Rosin, Argo;** Martins, Joao 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604392>

Simulation of demand response on buildings and district heating production

Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; **Jokisalo, Juha; Kosonen, Risto;** JanäÃ Â Enc, Philipp; Li, Yantong; Schäfers, Hans; Nord, Natasa E3S Web of Conferences : BuildSim Nordic 2022 2022 / art. 13002 <https://doi.org/10.1051/e3sconf/202236213002> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Simulation of modern passive stack ventilation in a retrofitted Nordic apartment building

Kravchenko, Iliia; **Kosonen, Risto; Jokisalo, Juha;** Kilpeläinen, Simo E3S Web of Conferences : BuildSim Nordic 2022 2022 / art. 14003 <https://doi.org/10.1051/e3sconf/202236214003> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Socially and culturally sustainable public participation in urban development : map questionnaire as a bridge-building tool in Kontula shopping mall

Nummi, Pilvi; Harsia, Eveliina SBEfin2022 Emerging Concepts for Sustainable Built Environment (SBEfin2022) 23/11/2022 - 25/11/2022 Online 2022 / art. 012011 <https://doi.org/10.1088/1755-1315/1122/1/012011> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Socio-economic impacts of large-scale deep energy retrofits in Finnish apartment buildings

Hirvonen, Janne; Saari, Arto; **Jokisalo, Juha;** Kosonen, Risto Journal of cleaner production 2022 / art. 133187, 19 p. : ill <https://doi.org/10.1016/j.jclepro.2022.133187> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sotsiaalsete võrgustike koosseisu ja ruumikasutuse seos mobiiltelefonianndmete põhjal

Mooses, Veronika; Silm, Siiri; **Puura, Anniki; Masso, Anu;** Tominga, Ago; Saluveer, Erki Uurimusi eestikeelse geograafia 105. aastapäeval 2025 / lk. 98–116 https://www.ester.ee/record=b5713662*est

Stochastic energy management for Battery Storage System-based microgrid considering different forecasting models

Zahraoui, Younes; Korõtko, Tarmo; **Rosin, Argo; Ahmadiyahangar, Roya** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227451>

Suurandmeteta Londoni-sarnaseid suurlinnu enam ei juhi

aripaev.ee 2024 [Suurandmeteta Londoni-sarnaseid suurlinnu enam ei juhi](#)

Systematic mapping of long-term urban challenges

Soe, Ralf-Martin; Sarv, Lill; Gasco-Hernandez, Mila Sustainability 2022 / art. 817 <https://doi.org/10.3390/su14020817> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Systematic review of fault tolerant techniques in underwater sensor networks

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan Sensors 2021 / art. 3264 <https://doi.org/10.3390/s21093264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Targa linna visioonist teostuseni : nutikad lahendused meie ümber

Soe, Ralf-Martin Riigikogu Toimetised 2023 / lk. 113-122 : ill https://www.ester.ee/record=b1361123*est
<https://rito.riigikogu.ee/wordpress/wp-content/uploads/2023/12/RiTo-48-1.pdf>

Tava- ja eriklassis õppivate hariduslike erivajadustega õpilaste lugemis- ja matemaatikaoskused

Sigus, Hardi; Soodla, Piret; **Mädamürk, Kaja** Eesti Haridusteaduste Ajakiri = Estonian Journal of Education 2023 / Lk. 159–186
<https://doi.org/10.12697/eha.2023.11.1.07>

Tenant-based measured electricity use in 4 large office buildings in Tallinn, Estonia

Ferrantelli, Andrea; Aljas, Hans Kristjan; Maask, Vahur; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 04001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124604001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The challenge of the digital public sphere : Finnish experiences of the role of social media in participatory planning

Mattila, Hanna; **Nummi, Pilvi** Planning theory and practice 2022 / 16 p <https://doi.org/10.1080/14649357.2022.2074527> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of cracks and voids on heat loss of insulated CLT walls and roofs

Hallik, Jaanus; Kalamees, Targo Proceedings of the III Forum Wood Building Baltic, Riga Technical University, 09-10.05, 2022, Riga, Latvia 2022 / p. 44-45 <https://forumwoodbuilding.rtu.lv/wp-content/uploads/sites/37/2022/05/FWBB2022-2022.05.09-speakers-day-1-and-2.pdf>

The effect of flanking element length in thermal bridge calculation and possible simplifications to account for combined thermal bridges in well insulated building envelopes

Hallik, Jaanus; Kalamees, Targo Energy and buildings 2021 / art. 111397 <https://doi.org/10.1016/j.enbuild.2021.111397> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of energy renovation on continuously and intermittently heated residential buildings in Southern Europe

Wang, Yangmin; Hirvonen, Janne; Qu, Ke; **Jokisalo, Juha; Kosonen, Risto** Buildings 2022 / art. 1316, 33 p. : ill <https://doi.org/10.3390/buildings12091316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of heat loss from pipes in an unheated basement on the heating energy consumption of an entire typical apartment building

Hamburg, Anti; Kalamees, Targo E3S Web Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) ; 172 2020 / art. 12005 <https://doi.org/10.1051/e3sconf/202017212005> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Thermal performance of ETICS, energy activated with PCM and PV

Talvik, Martin; Ilomets, Simo; Kalamees, Targo; Klõšeiko, Paul; Heim, Dariusz; Wieprzkowicz, Anna; Knera, Dominika Journal of physics : conference series 2021 / art. 012116, p. 1-8 : ill <https://doi.org/10.1088/1742-6596/2069/1/012116> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Threat modeling of cyber-physical systems - a case study of a microgrid system

Khalil, Shaymaa Mamdouh; Bahsi, Hayretudin; Dola, Henry Ochieng; Korõtko, Tarmo; McLaughlin, Kieran; Kotkas, Vahur Computers & Security 2023 / art. 102950, 16 p. : ill <https://doi.org/10.1016/j.cose.2022.102950> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

3D visualisations for communicative urban and landscape planning : What systematic mapping of academic literature can tell us of their potential?

Salla, Eilola; Jaalama, Kaisa; **Kangassalo, Petri; Nummi, Pilvi; Staffans, Aija**; Fagerholm, Nora Landscape and urban planning 2023 / art. 104716 <https://doi.org/10.1016/j.landurbplan.2023.104716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transition towards Smart City : the case of Tallinn

Sarv, Lill; Soe, Ralf-Martin Sustainability 2021 / art. 4143, 18 p <https://doi.org/10.3390/su13084143> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tudengiorganisatsiooni loomine

Suzdalev, Anna Studioosus 2022 / lk. 26-27 : fot https://www.ester.ee/record=b1242496*est

Tuleviku targad linnad on piiriülesed ja keskenduvad inimeste heaolule

digi.geenius.ee 2023 [Tuleviku targad linnad on piiriülesed ja keskenduvad inimeste heaolule](#)

A Two-layered approach for the validation of an operational autonomous shuttle

Malayjerdi, Mohsen; Goss, Quentin A.; Akbas, Mustafa Ilhan; Sell, Raivo; Bellone, Mauro IEEE Access 2023 / p. 89124–89137
<https://doi.org/10.1109/ACCESS.2023.3306602> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Upgrading fit-for-purpose land administration systems : challenges and opportunities in Bosaso, Somalia

Tonnarelli, Francesco; Sophianos, Sophos Survey review 2025 <https://doi.org/10.1080/00396265.2025.2455369>

Urban open platform for borderless smart cities

Soe, Ralf-Martin; Ruohomäki, Timo; **Patzig, Henry** Applied sciences 2022 / art. 700 <https://doi.org/10.3390/app12020700> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Varying data on urban trees complicates meeting user needs for digital twins of urban green infrastructure

Fabritius, Eeva Henna Helena; Tuulik, Tiina; **Kupper, Kristiina**; Mrosla, Laura; Nummi, Pilvi; **Prilenska, Viktorija**; Yao, Chaowen The 18th International Conference on Computational Urban Planning and Urban Management 2023 / 14 p <https://doi.org/10.17605/OSF.IO/6YR5V> <https://osf.io/ahzds>

Waveform variation defined model for harmonic current emissions including cross-order supply voltage harmonics influence

Daniel, Kamran; Kütt, Lauri; **Iqbal, Muhammad Naveed**; **Shabbir, Noman**; **Jarkovoi, Marek**; **Parker, Martin** IEEE Access 2023 / p. 42276-42289 : ill <https://doi.org/10.1109/ACCESS.2023.3270805> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wax actuator's empirical model development and application to underfloor heating control with varying complexity of controller modelling detail

Parts, Tuule Mall; **Ferrantelli, Andrea**; **Naar, Hendrik**; **Thalfeldt, Martin**; **Kurnitski, Jarek** Journal of building performance simulation 2023 / p. 772-796 <https://doi.org/10.1080/19401493.2023.2201818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Weather exposed CLT construction – observations and improvement concept

Kalbe, Kristo; **Kukk, Villu**; **Kalamees, Targo** Forum Wood Building Baltic : proceedings of the II Forum Wood Building Baltic, Riga Technical University Digital Conference, 14-16 April 2021 2021 / p. 84-85 : ill <https://issuu.com/matijsbabris/docs/fwbb2021>

Whole building algorithm for indoor air quality classification based on measured CO2 data

Aljas, Hans Kristjan; **Parts, Tuule Mall**; **Thalfeldt, Martin** Healthy Buildings 2023 Europe: Beyond Disciplinary Boundaries: proceedings ; 2 2023 / p. 852-859 : ill <https://www.proceedings.com/content/070/070278webtoc.pdf>

Virtual energy storage model of ventilation system for flexibility service

Maask, Vahur; **Rosin, Argo**; **Korõtko, Tarmo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227482>

Voltage main harmonic level influence on harmonic current emission modeling

Daniel, Kamran; Kütt, Lauri; **Iqbal, Muhammad Naveed**; **Shabbir, Noman**; **Jarkovoi, Marek**; **Parker, Martin** 2023 International Conference on Future Energy Solutions (FES) 2023 / p. 1-6 <https://doi.org/10.1109/FES57669.2023.10183302>

Women's (im)mobility strategies and digital platform adoption: the case study of employees doing desk work in Pune, India

Baudens, Pauline; **Masso, Anu**; **Soe, Ralf-Martin** Gender, technology and development 2023 / p. 423-443 <https://doi.org/10.1080/09718524.2023.2260651> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

World Energy Issue Monitor 2021 : Humanising Energy

Wilkinson, A.; Young, M.; Dauger, J-M.; Barbknecht, K-D.; Birnbaum, L.; Budargin, O.; Cronenbold, C.; Howard, M.; Mahmoud I.; **Kisel, Einari** 2021 https://www.worldenergy.org/assets/downloads/Issues_Monitor_2021-final.pdf?v=1615977568

World Energy Scenarios - 2019 : European Regional Perspective

Frei, C.; Davis, G.; Wilkinson, A.; Belostotskaya, A.; Flowers, B. S.; Dauger, J-M.; Klima, H.; D'haeseleer, W.; Valdir de Souza, L.; Campbell, G.; Yanbing, K.; **Kisel, Einari** 2019 <https://www.worldenergy.org/publications/entry/world-energy-scenarios-2019-european-regional-perspectives>

World Energy Trilemma Index 2020

Lowe, P.; Abdelhak Chibani, M.; Barseghyan, H.; Kolodziejczyk, B.; Oyewole, O.; Diendorfer, C.; Cami, A.; Enongene, K.; Nzotcha, U.; Baig, U.; **Kisel, Einari** 2020 <https://www.worldenergy.org/publications/entry/world-energy-trilemma-index-2020>

Väike kodu kujundab nüüdisaegse linnainimese mõttelaadi

Zeigo, Henri postimees.ee 2024 [Väike kodu kujundab nüüdisaegse linnainimese mõttelaadi](#)

Väikekodu kujundab nüüdisaegse linnainimese mõttelaadi

Zeigo, Henri Postimees 2024 [Väikekodu kujundab nüüdisaegse linnainimese mõttelaadi](#)

XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data

Shabbir, Noman; **Ahmadiyahangar, Roya**; **Rosin, Argo**; Jawad, Muhammad; **Kilter, Jako**; Martins, Joao 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>

Кисел: самое слабое место в плане развития энергетики– прогноз потребления

Koppel, Karin rus.err.ee 2025 <https://rus.err.ee/1609706409/kisel-samoe-slaboe-mesto-v-plane-razvitija-jenergetiki-prognoz-potreblenija>

A background of bias : subtle changes in lineup backgrounds increase the own race bias

Havard, Catriona; Breese, Emily; Thirkettle, Martin; Kask, Kristjan; Leol, Kris-Loreen; **Mädamürk, Kaja** Journal of Police and Criminal Psychology 2023 / 12 p <https://doi.org/10.1007/s11896-023-09578-2> [journal metrics at Scopus](#) [article at Scopus](#) [journal metrics at WOS](#) [article at WOS](#)