

Benchmarking the measured energy use of Nordic residential buildings and their Zero Energy-readiness

Ferrantelli, Andrea; 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.2022.171>

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>

Clustering of Transmission System Loads Based on Monthly Load Class Energy Consumptions

Leinakse, Madis; Kilter, Jako 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 6 p. : ill <https://doi.org/10.1109/EPE51172.2020.9269197>

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

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

Effect of thermal shock treatment parameters on the efficiency of WC-Co cermet recycling

Kariminejad, Arash; Antonov, Maksim; Kumar, Rahul, 1993-; Goljandin, Dmitri; Klimczyk, Piotr; Viljus, Mart AIP conference proceedings 2024 / art. 040013 <https://doi.org/10.1063/5.0189330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Energy efficiency monitoring system for technology mapping driven by FoF concept

Sarkans, Martinš; Pikner, Heiko; Sell, Raivo; Sonk, Kaimo Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 187-192 : ill

Energy performance, indoor air quality and comfort in new nearly zero energy day-care centres in northern climatic conditions

Kuusk, Kalle; Kaiser, Ahmed; Lolli, Nicola; Johansson, Jan; Kouvola, Tero Hasu; Gunnarshaug Lien, Anne; Arumägi, Endrik; Kalbe, Kristo; Hallik, Jaanus; Kurnitski, Jarek; Kalamees, Targo Journal of sustainable architecture and civil engineering 2019 / p. 7-16 <https://doi.org/10.5755/j01.sace.24.1.23228>

Evaluating the energy readiness of national building stocks through benchmarking

Ferrantelli, Andrea; Belikov, Juri; Petlenkov, Eduard; Thalfeldt, Martin; Kurnitski, Jarek IEEE Access 2022 / p. 45430-45443 : ill <https://doi.org/10.1109/ACCESS.2022.3170716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Evolution of biochemical processes in coking wastewater treatment : a combined evaluation of material and energy efficiencies and secondary pollution

Qin, Zhi; Wei, Cong; Wei, Tuo; Li, Zemin; Pang, Zijun; Luo, Pei; Feng, Chunhua; Qiu, Guanglei; Wei, Chaohai; Wu, Haizhen; Peng, Yahuan; Jian, Chengfu; Preis, Sergei Science of the total environment 2022 / 13 p. : ill <https://doi.org/10.1016/j.scitotenv.2021.151072> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Expect : eXplainable prediction model for energy consumption

Mouakher, Amira; Inoubli, Wissem; Ounoughi, Chahinez; Ko, Andrea Mathematics 2022 / art. 248 <https://doi.org/10.3390/math10020248> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental setup to explore the drives of battery electric vehicles

Rassölkin, Anton; Vodovozov, Valery World Electric Vehicle Journal 2013 / p. 1109 - 1114 <https://doi.org/10.3390/wevj6041109> [Journal metrics at Scopus](#) [Article at Scopus](#)

Experimental setup to explore the drives of battery electric vehicles

Rassölkin, Anton; Vodovozov, Valery The 27th International Electric Vehicle Symposium & Exhibition : Barcelona, 17th to 20th of November 2013 2014 <https://doi.org/10.1109/EVS.2013.6914810>

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>

Feature engineering for short-term forecast of energy consumption

Spitšakova, Margarita; Belikov, Juri; Nõu, Kalvi; Petlenkov, Eduard Proceedings of 2019 IEEE PES : Innovative Smart Grid Technologies Europe : (ISGT-Europe), Bucharest Romania, 29 September - 2 October, 2019 2019 / 5 p. : ill

<https://doi.org/10.1109/ISGTEurope.2019.8905698>

Feature engineering of Weather Data for Short-Term Energy Consumption Forecast

Sinimaa, Maria; Spitsšakova, Margarita; Belikov, Juri; Petlenkov, Eduard 2021 IEEE Madrid PowerTech 2021 / 6 p.

<https://doi.org/10.1109/PowerTech46648.2021.9494920>

Field study of airtightness of traditional rural houses in Estonia

Alev, Üllar; Kalamees, Targo Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013 / [10] p. : ill

A flexible enhanced throughput and reduced overhead (FETRO) MAC protocol for ETSI SmartBAN

Khan, Rida; Alam, Muhammad Mahtab; Guizani, Mohsen IEEE Transactions on Mobile Computing 2022 / p. 2671-2686 : ill

<https://doi.org/10.1109/TMC.2020.3047596> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Forecasting of energy consumption and production using recurrent neural networks

Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; **Iqbal, Muhammad Naveed;** **Shams Ghahfarokhi, Payam** Advances in

electrical and electronic engineering 2020 / p. 190–197 <https://doi.org/10.15598/aeet.v18i3.3597> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Indoor climate and energy performance in nearly zero energy day care centers and school buildings

Kaiser, Ahmed; **Kuusik, Kalle;** Heininen, Henrik; **Arumägi, Endrik;** **Kalamees, Targo;** Hasu, Tero; Lolli, Nicola; **Kurnitski, Jarek**

E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 02003 ; 9 p. : ill

<https://doi.org/10.1051/e3sconf/201911102003> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Managing energy consumption of linear delta robots using neural network models

Vodovozov, Valery; Lehtla, Madis; **Raud, Zoja;** **Semjonova, Natalia;** **Petlenkov, Eduard** Energies 2024 / art. 4081

<https://doi.org/10.3390/en17164081> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Neural network based configuring of linear delta robots with reduced energy consumption

Vodovozov, Valery; **Raud, Zoja;** **Petlenkov, Eduard** Renewable energies environment and power quality journal 2024 / p. 82-88

<https://doi.org/10.24084/reepqj24.267>

Problems in the operating and calculation of payback of photovoltaic systems in buildings

Saikovski, Valeri 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical

University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [4] p. : ill <https://doi.org/10.1109/RTUCON.2017.8125624>

Pumps energy consumption based on new EU legislation

Anus, Ivar; Uibo, D.; **Koppel, Tiit** Procedia engineering 2014 / p. 517-524 : ill <https://doi.org/10.1016/j.proeng.2014.11.473>

[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Retrofit cost-effectiveness : Estonian apartment buildings

Kuusik, Kalle; **Kalamees, Targo** Building research & information 2016 / p. 920-934 : ill <https://doi.org/10.1080/09613218.2016.1103117>

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

A Scoping Review of Energy Consumption in Industrial Robotics

Muru, Johannes; **Rassõlkin, Anton** Machines 2025 / art. 542 <https://doi.org/10.3390/machines13070542>

Selection of a green logical data warehouse schema by anti-monotonicity constraint

Ghabri, Issam; Bellatreche, Ladjel; **Ben Yahia, Sadok** SOFSEM 2020: Theory and Practice of Computer Science : 46th International

Conference on Current Trends in Theory and Practice of Informatics, SOFSEM 2020, Limassol, Cyprus, January 20-24, 2020 :

Proceedings 2020 / p. 350-361 https://doi.org/10.1007/978-3-030-38919-2_29 [Conference proceedings at Scopus](#) [Article at Scopus](#)

[Conference proceedings at WOS](#) [Article at WOS](#)

Tall buildings cluster form rationalization in a Nordic climate by factoring in indoor-outdoor comfort and energy

De Luca, Francesco; Naboni, Emanuele; Lobaccaro, Gabriele Energy and buildings 2021 / art. 110831, 16 p. : ill

<https://doi.org/10.1016/j.enbuild.2021.110831> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Technologies and practical implementations of air-conditioner based demand response

Waseem, Muhammad; Lin, Zhenzhi; Ding, Yi; **Wen, Fushuan;** Liu, Shengyuan; **Palu, Ivo** Journal of Modern Power Systems and

Clean Energy 2021 / p. 1395 - 1413 <https://doi.org/10.35833/MPCE.2019.000449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Throughput and channel aware MAC scheduling for SmartBAN standard

Khan, Rida; Alam, Muhammad Mahtab; Paso, Tuomas; Haapola, Jussi IEEE Access 2019 / p. 63133-63145 : ill

<https://doi.org/10.1109/ACCESS.2019.2916159> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Use of value stream mapping for evaluation of load conservation and peak clipping possibilities [Electronic resource]

Melsas, Raivo; Rosin, Argo 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [6] p. : ill. [DVD] <https://doi.org/10.1109/EEEIC.2017.7977549>