

An Agent-Based Approach to Simultaneously Reduce Speed Limits, Lower Travel Times, and Increase Pedestrian Safety in Tallinn, Estonia

Rasoulinezhad, Mahdi; Partanen, Jenni Vilhelmiina; Mozaffaree Pour, Najmeh International Journal of E-Planning Research 2025 / p. 1-25 <https://doi.org/10.4018/IJEPR.383732> <https://www.igi-global.com/gateway/article/full-text-pdf/383732>

Assessing the biodegradation characteristics of poly(butylene succinate) and poly(lactic acid) formulations under controlled composting conditions

Lyshtva, Pavlo; Voronova, Viktoria; Kuusik, Argo; Kobets, Yaroslav AppliedChem 2025 / art. 17
<https://doi.org/10.3390/appliedchem5030017> <https://www.mdpi.com/2673-9623/5/3/17>

An assessment framework for evaluating the digitalisation potential of stormwater management and monitoring in small- and medium-sized water utilities

Suits, Kristjan; Annus, Ivar; Kändler, Nils; Kaur, Katrin; Kõiv, Kerta; Arm, Liisi; Barndöck, Helen Urban Water Journal 2025
<https://doi.org/10.1080/1573062X.2025.2511810>

Assessment of fire-retardant treatments and their impact on the fire performance and bonding properties of aspen and silver birch veneers

Alao, Percy Festus; Olusoji, Adekunle; Kallakas, Heikko; Just, Alar; Kers, Jaan European journal of wood and wood products 2025 / art. 66 <https://doi.org/10.1007/s00107-025-02223-1>

Benchmarking Danish, Estonian and Finnish NZEB requirements with European Commission recommendations in residential and office buildings

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; Kurnitski, Jarek Energy and Buildings 2025 / art. 116086
<https://doi.org/10.1016/j.enbuild.2025.116086>

ChangeMakers – promoting engineering through developing the soft skills of youngsters

Annus, Ivar; Kaur, Katrin Futureproofing Engineering Education for Global Responsibility : Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL 2024) ; vol. 3 2025 / p. 184-194 https://doi.org/10.1007/978-3-031-83523-0_17

Comparing domain expert and machine learning data enrichment of building registry

Torim, Ants; Iliste, Elisa; Pikas, Ergo; Liiv, Innar; Robal, Tarmo; Kalamees, Targo Buildings 2025 / art. 1798
<https://doi.org/10.3390/buildings15111798>

Computer vision framework for crack detection and estimation of air leakage through the straight-through cracks in buildings envelopes

Jahanbakhsh, Maliheh; Ferrantelli, Andrea Rakenteiden mekaniikka = Journal of structural mechanics 2025 / p. 71-85
<https://doi.org/10.23998/rm.152481>

Connecting meteorological and hydrological drought in the Baltic Region

Meilutyte-Lukauskiene, Diana; Sharifi, Alireza; Nazarenko, Serhii; Akstinas, Vytautas; Haghighi, Ali Torabi; Kobets, Yaroslav; Kokorite, Ilga; Jurgelenaite, Aldona; Hashemi, Hossein; Shahnazi, Saman Atmospheric Research 2025 / art. 108138
<https://doi.org/10.1016/j.atmosres.2025.108138>

Critical discussion on the challenges of integrating heat pumps in hydronic systems in existing buildings

Cholewa, Tomasz; Bejan, Andrei-Stelian; Miara, Marek; Schauer, Christian; Kosonen, Risto; Borodinecs, Anatolijs; Bogdanovičs, Raimonds; Amanowicz, Łukasz; Vering, Christian; Siuta-Olcha, Alicja; Kurnitski, Jarek Energy 2025 / art. 136158
<https://doi.org/10.1016/j.energy.2025.136158>

Design and development of solid state circuit breaker with residual current protection for residential prosumer DC microgrids

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri; Kurnitski, Jarek Proceedings of the Estonian Academy of Sciences 2025 / p. 281-290 <https://doi.org/10.3176/proc.2025.2S.02>

Developing a localized resilience assessment framework for historical districts: A case study of Yazd, Iran

Moayedfar, Saeedeh; Mohebbi, Hossein; Mozaffaree Pour, Najmeh; Sharifi, Ayyoob PLoS ONE 2025 / art. e0317088
<http://doi.org/10.1371/journal.pone.0317088> <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0317088>

Development of continuous dynamic vertical reference for maritime and offshore engineering by applying geodetic and machine learning strategies

Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander; Rajabi Kiasari, Saeed; Jahanmard, Vahidreza; Kupavõh, Aleksei EGU General Assembly 2025 2025 / art. EGU25-20596 <https://doi.org/10.5194/egusphere-egu25-20596>

Documentation of the BSCD2000 height reference grid

Schwabe, J.; Ågren, J.; Liebsch, G.; Varbla, Sander; Teitsson, H.; Strykowski, G.; Ellmann, Artu; Forsberg, R.; Bilker-Koivula, M.; Liepiņš, I. 2023

Exploring lean principles in large-scale renovation: A review of socio-economic impacts

Vendel, Kädi-Riin; Pikas, Ergo; Koskela, Lauri Jaakko; Tetik, Müge Annual Conference of the International Group for Lean Construction, IGLC 2025 / p. 1161-1172 <https://doi.org/10.24928/2025/0151>

Forecasting of Sea Level Extremes using Deep Learning and Extreme Value Analysis

Delpeche-Ellmann, Nicole Camille; Rajabi-Kiasari, Saeed; Soomere, Tarmo; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-13350 <https://meetingorganizer.copernicus.org/EGU25/EGU25-13350.html> <https://doi.org/10.5194/egusphere-egu25-13350>

Fourier neural operators for emulating ocean models : Towards a knowledge-driven machine learning

Jahanmard, Vahidreza; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille EGU General Assembly 2025 2025 / art. EGU25-4354 <https://doi.org/10.5194/egusphere-egu25-4354>

Global review of Smart City governance practices

Beckers, Dominik; Gerli, Paolo; Mora, Luca; Thabit Gonzalez, Sara; Tonnarelli, Francesco 2022 <http://unhabitat.org/global-review-of-smart-city-governance-practices>

Higher-order shear deformation formulation for the structural response of a multideck ship

Imala, Mikk-Markus; Naar, Hendrik; Tabri, Kristjan Ships and offshore structures 2025 / 26 p <https://doi.org/10.1080/17445302.2025.2507714>

The Impact of Climate Change to Pavement Temperatures and Asphalt Binder Grade Selection in Estonia Based on Different Climate Change Scenarios

Kontson, Karli; Lill, Kristjan; Ellmann, Artu; Aavik, Andrus The Baltic Journal of Road and Bridge Engineering 2025 / p. 94-113 <https://doi.org/10.7250/bjrbe.2025-20.655>

Indoor Overheating Risks of Pv-Etics and Dark-Coloured Facades : Experimental and Simulation-Based Assessment

Talvik, Martin; Ilomets, Simo; Kalamees, Targo SSRN 2025 / 16 p <https://doi.org/10.2139/ssrn.5264960>
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5264960

Instantaneous sea surface height prediction using satellite altimetry and deep learning

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium (LPS25) 2025 <https://lps25.esa.int/>

Integrating satellite altimetry and deep learning for enhanced sea level forecasting

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-9951 <https://meetingorganizer.copernicus.org/EGU25/EGU25-9951.html> <https://doi.org/10.5194/egusphere-egu25-9951>

Managing Smart City governance : A playbook for local and regional governments

Beckers, Dominik; Gerli, Paolo; Mora, Luca; Thabit, Sara; Tonnarelli, Francesco 2023 <http://unhabitat.org/managing-smart-city-governance-a-playbook-for-local-and-regional-governments>

Overcoming the smart city governance challenge: an innovation management perspective

Beckers, Dominik; Mora, Luca Journal of urban technology 2025 / 22 p <https://doi.org/10.1080/10630732.2025.2461983>

Passenger ship global static response analysis implementing a modified higher-order shear element description

Imala, Mikk-Markus; Naar, Hendrik; Tabri, Kristjan Innovations in the Analysis and Design of Marine Structures 2025 / p. 49-57 <https://doi.org/10.1201/9781003642411-6>

Preliminary field study on hygrothermal performance of ETICS using thick lime plasters on various insulation materials for historic buildings in wet and cold climate

Talvik, Martin; Klõšeiko, Paul; Vilba, Kristina; Põldaru, Mattias; Olak, Henri; Kalamees, Targo 2025

River-basin restoration hydraulic complexities in some Estonian rivers : Quadratic-type channel flow characteristics at weirs and rapids

Laanearu, Janek 8th IAHR Europe Congress "Water - across boundaries" : full papers 2025 / p. 35-44 <https://www.iahr2024.lnec.pt/proceedings> <http://doi.org/10.34638/3zcb-9082>

Sea level forecasting using deep recurrent neural networks with high-resolution hydrodynamic model

Rajabi-Kiasari, Saeed; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Applied ocean research 2025 / art. 104496 <https://doi.org/10.1016/j.apor.2025.104496>

Sensing diversity in Tallinn using mobile phone data

Osunkoya, Kofoworola Modupe; Partanen, Jenni Vilhelmiina ECTQG 2023 : Proceedings, Abstracts 2023 / p. 146 - 147 https://ucpages.uc.pt/site/assets/files/1249198/ectqg_2023_proceedings_final.pdf

Situational awareness in autonomous shuttle buses

Kalda, Krister; Koskinen, Kari M.; Sarv, Lill; Sell, Raivo Proceedings of the Estonian Academy of Sciences 2025 / p. 212-216

Smart city code : Governance handbook for digital transformation managers in the public sector

Mora, Luca; Gerli, Paolo; Beckers, Dominik; Thabit, Sara Gonzalez; Tonnarelli, Francesco 2025

<http://shop.elsevier.com/books/smart-city-code/mora/978-0-443-13402-9>

Smart nature-based solutions for stormwater management in urban areas—an analysis of pilot cases

Kõiv, Kerta; Annus, Ivar; Kändler, Nils; Truu, Murel; Kaur, Katrin; Suits, Kristjan Engineering Proceedings 2024 / art. 18

<https://doi.org/10.3390/engproc2024069018> [Journal metrics at Scopus](#) [Article at Scopus](#)

A state-of-the-art empirical round robin validation of heat, air and moisture (HAM) models

Dang, Xinyuan; Guimarães, Ana Sofia; Sarkany, Andreas; Laukkarinen, Anssi; Xu, Bingyu; Vanderschelden, Bruno; Rode, Carsten; Xia, Changchang; Feng, Chi; Whitman, Chris; Klõšeiko, Paul; Kalamees, Targo; Kuk, Villu Building and Environment 2025 / art. 112867

<https://doi.org/10.1016/j.buildenv.2025.112867>

Status report for the EUREF Working Group “European Unified Height Reference”

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredsson, Anders; Barzaghi, Riccardo; Bilker-Koivula, Mirjam; Ellmann, Artu; Varbla, Sander EUREF Symposium 2025 : Abstracts Book 2025 / p. 14

[Abstracts Book \(PDF\)](#)

SWOT-derived geometric marine geoid surface complements gravimetric geoid modelling approaches

Kupavõh, Aleksei; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander EGU General Assembly 2025 2025 / art. EGU25-10957

<https://doi.org/10.5194/egusphere-egu25-10957>

The feasibility of zero-emission neighbourhood renovation of apartment buildings in a cold climate

Kertsmit Kadri-Ann; Kalamees, Targo; Arumägi, Endrik; Hallik, Jaanus Building and Environment 2025 / art. 113004

<https://doi.org/10.1016/j.buildenv.2025.113004>

The Performance of Bond Lines of Engineered Wood in Cone Heater Testing

Vihmann, Jane Liise; Just, Alar; Sterley, Magdalena; Mäger, Katrin Nele; Kers, Jaan Fire and Materials 2025

<https://doi.org/10.1002/fam.3295>

UWB and GNSS Sensor Fusion Using ML-Based Positioning Uncertainty Estimation

Tommingas, Mihkel; Laadung, Taavi; Varbla, Sander; Mürsepp, Ivo; Alam, Muhammad Mahtab IEEE Open Journal of the Communications Society 2025

Ventilation Strategies for Deep Energy Renovations of High-Rise Apartment Buildings : Energy Efficiency and Implementation Challenges

Hamburg, Anti; Palmiste, Ülar; Mikola, Alo; Kalamees, Targo Energies 2025 / art. 2785

<https://doi.org/10.3390/en18112785> <https://www.mdpi.com/1996-1073/18/11/2785>

What grows, adapts and lives in the digital sphere? Systematic literature review on the dynamic modelling of flora and fauna in digital twins

Mrosla, Laura; Fabritius, Eeva Henna Helena; Kupper, Kristiina; Dembski, Fabian; Fricker, Pia Ecological modelling 2025 / art. 111091

<https://doi.org/10.1016/j.ecolmodel.2025.111091>

What Types of Problem-Solving are Used in the Last Planner System?

Bölviken, Trond; Skaar, John; Kalsaas, Bo-Terje; Koskela, Lauri Jaakko Proceedings of the 33rd Annual Conference of the International Group for Lean Construction (IGLC33) 2025 / p. 448-458

<https://doi.org/10.24928/2025/0217>