

Accuracy assessment of RTK-GNSS equipped UAV conducted as-built surveys for construction site modelling

Varbla, Sander; Puust, Raido; Ellmann, Artu Survey review 2021 / p. 477-492 <https://doi.org/10.1080/00396265.2020.1830544>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

AI-based surrogate model for the prediction of ship fuel consumption reflecting hydrometeorological conditions

Zhang, Mingyang; Tsoulakos, Nikolaos; Kujala, Pentti Jouko Sakari; Hirdaris, Spyros Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2024 ; vol. 9 2024 / OMAE2024-121992, V009T13A016 ; 11 pages
<https://doi.org/10.1115/OMAE2024-121992>

Application of artificial intelligence and machine learning for BIM : review

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

BIM adoption in the AEC/FM industry - the case for issuing building permits

Ullah, Kaleem; Raitviir, Christopher; Lill, Irene; Witt, Emlyn David Qivitoq International journal of strategic property management 2020 / p. 400-413 <https://doi.org/10.3846/ijspm.2020.13676> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

BIM adoption processes : findings from a systematic literature review

Ullah, Kaleem; Witt, Emlyn David Qivitoq; Lill, Irene SDGs in Construction Economics and Organization : The 11th Nordic Conference on Construction Economics and Organisation (CREON), May 18-20, 2022 2023 / p. 223-236 https://doi.org/10.1007/978-3-031-25498-7_16 [Conference proceedings at Scopus](#) [Article at Scopus](#)

BIM for construction education in Nigeria

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene SDGs in Construction Economics and Organization : The 11th Nordic Conference on Construction Economics and Organisation (CREON), May 18-20, 2022 2023 / p. 63-74 https://doi.org/10.1007/978-3-031-25498-7_5 [Conference proceedings at Scopus](#) [Article at Scopus](#)

The BIM-based building permit process : factors affecting adoption

Ullah, Kaleem; Witt, Emlyn David Qivitoq; Lill, Irene Buildings 2022 / art. 45 <https://doi.org/10.3390/buildings12010045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

BRICO 2016-2018 : [rahvusvaheline terrassilade projekteerimise ja mudelite valmistamise võistlus TTÜs]

Järvpõld, Madis; Öiger, Karl; Kangilaski, Juhan; Idnurm, Siim; Siim, Kaarel; Vesingi, Kaarel 100 aastat TTÜ ehitusinsenere 2018 / lk. 400-407 : fot

Classifying construction related information : an unified system considering national individualities

Liias, Roode The role of education for Civil Engineers in the implementation of the SDGs : Proceedings of the 1st Joint Conference of EUCEET and AECEF 2022 / p. 111-120 <https://doi.org/10.24840/978-972-752-291-0>
<https://books.fe.up.pt/index.php/feup/catalog/book/978-972-752-291-0>

Conceptual framework of information flow synchronization throughout the building lifecycle

Raitviir, Christopher-Robin; Lill, Irene Buildings 2024 / art. 2207 <https://doi.org/10.3390/buildings14072207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Defining a BIM-enabled learning environment - an adaptive structuration theory perspective

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Morganti, Caterina; Teittine, Toni; Lill, Irene Buildings 2022 / art. 292 <https://doi.org/10.3390/buildings12030292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Defining requirements for a BIM-enabled learning environment

Witt, Emlyn David Qivitoq; Kähkönen, Kalle; Bragadin, Marco Alvise SDGs in Construction Economics and Organization : The 11th Nordic Conference on Construction Economics and Organisation (CREON), May 18-20, 2022 2023 / p. 237-250
https://doi.org/10.1007/978-3-031-25498-7_17 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Developing a database to capture, store and share fall-related safety knowledge to enhance fall prevention in construction industry

Chellappa, Vigneshkumar; Li, Rita Yi Man; Liias, Roode; Salve, Urmi Ravindra Enabling digital technologies to sustain construction growth and efficiency : 19th International Conference on Construction Applications of Virtual Reality: CONVR 2019 : 13-15 November 2019, Bangkok, Thailand 2019 / p. 152-159 ; ill <http://convr2019.com/PROCEEDINGS-CONVR19.pdf>

Dispersive effects during long wave runup on a beach

Didenkulova, Irina; Abdalazeez, Ahmed; Dutykh, Denys Geophysical research abstracts 2019 / p. EGU2019-16378
<https://meetingorganizer.copernicus.org/EGU2019/EGU2019-16378.pdf>

E-ehitajad USAs koostöömudeleid otsimas : [vestlusring]

Kiisler, Eva; Rüütli, Merylin; Moorats, Indrek; Kirs, Kaia; Laaneoks, Heigo; **Liias, Roode** Ehitaja 2016 / lk. 18-21 : fot https://artiklid.elnet.ee/record=b2806833*est

Energy analysis in ice hockey arenas and analytical formula for the temperature profile in the ice pad with transient boundary conditions

Ferrantelli, Andrea; Viljanen, Klaus; **Kurnitski, Jarek** Advances in building energy research 2021 / p. 499-522 : ill <https://doi.org/10.1080/17512549.2019.1615549> [Journal metrics at Scopus](#) [Article at Scopus](#)

Evaluating construction education interventions

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 138-149 https://doi.org/10.1007/978-3-030-68201-9_49 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An explorative analysis of European standards on building information modelling

Bolpagni, Marzia; Bosché, Frédéric; de Boissieu, Aurélie; Akbarieh, Arghavan; Shaw, Conor; Mêda, Pedro; **Puust, Raido**; Medineckiene, Milena; Popov, Vladimir; Sacks, Rafael Proceedings of the 2022 European Conference on Computing in Construction 2022 / p. 363-369 <https://doi.org/10.35490/EC3.2022.170>

Exponential to ZIP and ZIP to exponential load model conversion : methods and error

Leinakse, Madis; Kilter, Jako IET generation, transmission & distribution 2021 / p. 177-193 <https://doi.org/10.1049/gtd2.12002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Facilitating BIM-enabled learning in construction education = BIM'i kasutamine ehitusinseneride koolituses

Olowa, Theophilus Oluwarotimi Olatunde 2022 <https://doi.org/10.23658/taltech.19/2022> <https://digikogu.taltech.ee/et/Item/830d134c-c4b9-435a-8e42-ad8f45754ec7> https://www.ester.ee/record=b5499111*est

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

Sinimaa, Maria; Spitsakova, Margarita; Belikov, Juri; Petlenkov, Eduard IEEE Madrid PowerTech 2021 / 6 p. <https://doi.org/10.1109/PowerTech46648.2021.9494920>

Foundational concepts for BIM

Sacks, Rafael; **Pikas, Ergo** BIM Teaching and Learning Handbook : Implementation for Students and Educators 2021 / p. 5-22 : ill <https://doi.org/10.1201/9780367855192>

Gene-auto : an automatic code generator for a safe subset of Simulink/Stateflow and Scicos

Toom, Andres; Näks, Tõnu; Pantel, M.; Gandriau, M.; Wati, I. Embedded Real Time Software : ERTS 2008 : Toulouse, France 2008 https://www.researchgate.net/publication/302984605_Gene-Auto_an_Automatic_Code_Generator_for_a_safe_subset_of_SimulinkStateflow_and_Scicos

High-Level Implementation-Independent Functional Software-Based Self-Test for RISC Processors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan Journal of electronic testing : theory and applications 2020 / p. 87-103 <https://doi.org/10.1007/s10836-020-05856-7>

Hyperspectral camera with polarized filter as modern supersensor device for cyber-physical systems [Online resource]

Jürise, Martin; Udal, Andres; Kaugerand, Jaanus; Sell, Raivo BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600957>

Impact of load matching algorithms on the battery capacity with different household occupancies

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Biechl, Helmut IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2541-2547 <https://doi.org/10.1109/IECON.2019.8927495> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Information management of machinebuilding enterprise

Eljas, Olev; Kimmel, Andres International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 52-54: ill

Interdisciplinary digital construction : Framing the development of a new university study program

Pikas, Ergo; Bloch, Tanya; **Ilste, Elisa**; Gurevich, Uri Proceedings of the 2025 European Conference on Computing in Construction 2025 / 9 p <http://doi.org/10.35490/EC3.2025.251>

Investigating the drop-out rate from a BIM course

Puust, Raido; Lill, Irene; Liias, Roode Proceedings of the 10th Nordic Conference on Construction Economics and Organization (CEO 2019), May 7-8, 2019, Tallinn, Estonia 2019 / p. 325-333 <https://doi.org/10.1108/S2516-285320190000002020>

Kes on kes BIM-valdkonnas?

Kalamees, Targo Ehitaja 2018 / lk. 32-34 : fot http://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2868755*est

Making use of point cloud for generating subtractive solar envelopes

Alkadri, Miktha Farid; **De Luca, Francesco**; Turrin, Michel; Sariyildiz, Sevil eCAADe SIGraDi 2019 - Architecture in the Age of the 4th Industrial Revolution. Vol. 1 2019 / p. 633-640 : ill http://papers.cumincad.org/data/works/att/ecaadesigradi2019_061.pdf
https://doi.org/10.5151/proceedings-ecaadesigradi2019_061 Conference proceedings at Scopus Article at Scopus Article at WOS

Margus Kurm: võtan asja käsile, kui näen, et kellelegi tehakse liiga

Punamäe, Sander Postimees 2021 / Lk. 12-14 "[Margus Kurm: võtan asja käsile, kui näen, et kellelegi tehakse liiga](#)"

Model for smart, self-learning and adaptive resilience building

Kaklauskas, Arturas; **Lill, Irene**; Amaratunga, Dilanthi; Ubarte, Ieva Proceedings of the 10th Nordic Conference on Construction Economics and Organization (CEO 2019), May 7-8, 2019, Tallinn, Estonia 2019 / p. 315-324 : ill <https://doi.org/10.1108/S2516-285320190000002017>

Model-based testing of autonomous robots using TestIt

Kanter, Gert; Vain, Jüri Journal of reliable intelligent environments 2020 / p. 15-30 <https://doi.org/10.1007/s40860-019-00095-w> Journal metrics at Scopus Article at Scopus

Modelling of nitrogen concentrations in water from drained peat soils

Vassiljev, Anatoli; Annus, Ivar; Kändler, Nils; Kaur, Katrin Journal of water supply : research and technology - AQUA 2019 <https://doi.org/10.2166/aqua.2019.104>

MPC-based optimal control of battery management system in residential application

Tammaru, T.; Hokmabad, Hossein Nouroollahi; Levron, Yoash; Belikov, Juri IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863121>

Mudelprojekteerimine aitab luua energiasäästlikke piirdetarindeid

Sutt, Jüri; Askivi, Urmas Ehitaja 2011 / 9, lk. 58-62 : ill https://artiklid.elnet.ee/record=b2433935*est

Nonlinear deformation and run-up of elongated solitary waves: numerical simulations and analytical predictions

Abdalazeez, Ahmed; Didenkulova, Irina; Dutykh, Denys Geophysical research abstracts 2019 / p. EGU2019-10473 <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-10473.pdf>

A novel method for calculating heat emitter and controller configuration setpoint variations with EN15316-2

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Journal of building engineering 2020 / art. 101387 <https://doi.org/10.1016/j.jobe.2020.101387> <https://aaltodoc.aalto.fi/handle/123456789/43872> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A numerical sensitivity analysis of fluid-structure interaction simulations on slamming loads and responses

Hosseinzadeh, Saeed; Topa, Ameen; Tabri, Kristjan IOP conference series : materials science and engineering 2023 / art. 012017, 9 p. : ill <https://doi.org/10.1088/1757-899X/1288/1/012017>

On nonlinear waves in media with complex properties

Engelbrecht, Jüri; Salupere, Andrus; Berezovski, Arkadi; Peets, Tanel; Tamm, Kert Generalized models and non-classical approaches in complex materials ; 1 2018 / p. 275-286 https://doi.org/10.1007/978-3-319-72440-9_13 Journal metrics at Scopus Article at Scopus

On-line repository of digital resources for a BIM-enabled learning environment

Bragadin M A, Morganti C, Ricci P C, Witt E D Q, Kahkonen K, Puolitaival; Bragadin, Marco A.; Morganti, Caterina; Ricci, Pier Carlo; **Witt, Emlyn David Qivitoq**; Kahkonen, Kalle; Puolitaival, Taija Journal of information technology in construction 2024 / p. 1039-1057 <https://doi.org/10.36680/j.itcon.2024.046>

Parameetriliste tootekataloogide põhimõtete väljatöötamine ning parameetrilise tootekataloogide keskkonna loomise alternatiivide väljatöötamine : Uuringu lõpparuanne

Liias, Roode; Alt, Aivars; Saidla, Siim 2013 https://www.mkm.ee/sites/default/files/kirjanduse_ulevaade_v131115.pdf

Power smoothing in smart buildings using flywheel energy storage

Plaum, Freddy; Häring, Tobias; Ahmadiyahangar, Roya; Rosin, Argo Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 473-477 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161458>

Predicting a passenger ship's response during evasive maneuvers using Bayesian Learning

Gil, M.; **Montewka, Jakub**; Krata, P. Reliability engineering and system safety 2025 / art. 110765 <https://doi.org/10.1016/j.ress.2024.110765>

Reconstruction of large-scale sea surface temperature and salinity fields using sub-regional EOF patterns from models

Elken, Jüri; Zujev, Mihhail; She, Jun; Lagemaa, Priidik Frontiers in earth science 2019 / art. 232, 20 p. : ill
<https://doi.org/10.3389/feart.2019.00232> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Resistance tests of a series of chine interceptors on a plaing craft

Lakatoš, Mikloš; Sahk, Tarmo; Andreasson, Henrik; Tabri, Kristjan International Conference High Speed Vessels : 1st-2nd July 2020, London, UK : papers [Online resource] 2020 / p. 63-70 : ill ["researchgate"](#)

Saaremaa – väikelaevade meka

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/saaremaa-vaikelaevade-meka/>

Serious game for modelling neighbourhood energy supply scenarios

Prilenska, Viktorija IOP conference series : earth and environmental science 2020 / art. 012091, 12 p. : ill
<https://doi.org/10.1088/1755-1315/410/1/012091> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Simulazione 4D BIM del cantiere per il progetto BENEDICT

Bragadin, M. A.; Morganti, C.; Coraglia, U. M.; Kähkönen, K.; **Witt, Emlyn David Qivitoq** Colloqui.AT.e 2022 : Memoria e Innovazione. Memory and Innovation 2023 / p. 761-773 <https://cris.unibo.it/handle/11585/907375>

Simulation of the hot deformation and fracture behavior of reduced activation ferritic/martensitic 13CrMoNbV steel

Shaikh, Asad Alamgir; Churyumov, Alexander; Pozdniakov, Andrey; Churyumo, Tatiana Applied sciences 2020 / art. 530 ; 12 p. : ill
<https://doi.org/10.3390/app10020530> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Smart urban futures: outlining the smart city planning project

Partanen, Jenni Vilhelmiina Geography research forum 2020 / p. 19-34 : ill <https://grf.bgu.ac.il/index.php/GRF/article/view/597>

Statistical-empirical pavement temperature prediction models based on data from road weather stations in Estonia

Kontson, Karl; Lill, Kristjan; Aavik, Andrus Road Materials and Pavement Design 2024 / 11 p
<https://doi.org/10.1080/14680629.2024.2415347>

Süsteemide süsteemi olukorra hindamisest selle komponentide võimemudelite abil

Mõtus, Leo; Teichmann, Mare; Meriste, Merik; Rannat, Kalev; Priisalu, Jaan; Kaugerand, Jaanus Sõjateadlane 2020 / Lk. 238-260 https://www.ester.ee/record=b4555087*est

Tallinna Tehnikaülikool teeb oma hoonetest ülitäpse 3D mudeli ukse linkideni välja

Alvela, Ain postimees.ee 2023 [Tallinna Tehnikaülikool teeb oma hoonetest ülitäpse 3D mudeli ukse linkideni välja](#)

TalTech teeb oma õppelinnaku hoonetest digitaalse 3D-mudeli

Alvela, Ain EhitusEST 2023 / lk. 12-15 : ill https://www.ester.ee/record=b4442657*est

Teaching BIM : a comparison between actual and future perspectives

Morganti, Caterina; Coraglia, Ugo Maria; Bragadin, Marco Alvise; Rissolo, Dominique; **Witt, Emlyn David Qivitoq;** Kähkönen, Kalle Proceedings of the 2023 European Conference on Computing in Construction and the 40th International CIB W78 Conference 2023 / 8 p <https://doi.org/10.35490/EC3.2023.212>

Teaching project risk management in a BIM-enabled learning environment

Witt, Emlyn David Qivitoq; Olowa, Theophilus Oluwarotimi Olatunde; Lill, Irene Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 162-173 https://doi.org/10.1007/978-3-030-68198-2_14 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Tehnikaülikooli teadlaste uus meetod aitab täpsustada rannikumere prognoosimudeleid [Võrguväljaanne]

novaator.err.ee 2020 / fot [Tehnikaülikooli teadlaste uus meetod aitab täpsustada rannikumere prognoosimudeleid](#)

Towards 4D BIM : A Systematic Literature Review on Challenges, Strategies and Tools in Leveraging AI With BIM

Awe, Michael; **Malhi, Avleen Kaur;** Budka, Marcin; Mavengere, Nicholas; Dave, Bhargav Buildings 2025

Unmanned aerial vehicle surveying for monitoring road construction earthworks

Julge, Kalev; Ellmann, Artu; Köök, Romet The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill
<https://doi.org/10.7250/bjrbe.2019-14.430> http://www.ester.ee/record=b2222369*est <https://journals.vgtu.lt/index.php/BJRBE> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Usage of microscopic simulation to estimate the environmental impact of road transport

Makarova, Irina; Buyvol, Polina; Magdin, Kirill; **Pashkevich, Anton;** Boyko, Aleksey; Shubenkova, Ksenia Transportation research procedia 2020 / p. 86-93 <https://doi.org/10.1016/j.trpro.2020.02.013> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Äritehnoloogia ekspert: ehituse järgmine suur samm ei saa sellela toimuda [Võrguväljaanne]

Sommer, Reelika arileht.delfi.ee 2021 ["Äritehnoloogia ekspert: ehituse järgmine suur samm ei saa sellela toimuda"](#)

Моделирование процесса намотки композитных цилиндрических оболочек

Kutin, Aleksei; **Arjassov, Gennadi** Научно-технический вестник информационных технологий, механики и оптики = Scientific and technical journal of information technologies, mechanics and optics 2020 / с. 283–289 <https://doi.org/10.17586/2226-1494-2020-20-2-283-289>