

Building carbon footprint comparison between building permit and as-built with circular material usage

Kertsmik, Kadri-Ann; Talvik, Martin; Lylykangas, Kimmo Sakari; Ilomets, Simo; Kalamees, Targo ICEARC'23 : The 3rd International Civil Engineering & Architecture Conference, Trabzon, Türkiye, 12-14 October 2023 : Proceedings ; Vol. 2: Architecture 2023 / p. 392-399 https://icearc2023.glpmanager.com/documents/ICEARC'23_Proceedings_Architecture.pdf

Building morphology influence on outdoor comfort in urban environments. An analysis through machine learning

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari Proceedings of the 12th Annual Symposium on Simulation for Architecture and Urban Design 2021 <http://www.simaud.org/2021/program.php>

Buildings' energy efficiency measures effect on CO2 emissions in combined heating, cooling and electricity production

Pylsy, Petri; Lylykangas, Kimmo Sakari; Kurnitski, Jarek Renewable and sustainable energy reviews 2020 / art. 110299, 18 p : ill <https://doi.org/10.1016/j.rser.2020.110299> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 urban modelling : the case of explainable detection of urban heat island = Andmepõhine linnamodelleerimine : soojusaarte seletatav tuvastamine

Eslamirad, Nasim 2023 https://www.ester.ee/record=b5645371*est <https://doi.org/10.23658/taltech.68/2023> <https://digikogu.taltech.ee/et/Item/ff9725f6-fc34-474c-ad5b-0ed6128127ee> https://www.ester.ee/record=b5645371*est

Evaluating outdoor thermal comfort using a mixed-method to improve the environmental quality of a university campus

Eslamirad, Nasim; Sepulveda Luque, Abel; De Luca, Francesco; Lylykangas, Kimmo Sakari Energies 2022 / art. 1577, 26 p. : ill <https://doi.org/10.3390/en15041577> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of renovation strategies : cost-optimal, COle optimal, or total energy optimal

Kertsmik, Kadri-Ann; Kuusk, Kalle; Lylykangas, Kimmo Sakari; Kalamees, Targo Energy and buildings 2023 / art. 112995 <https://doi.org/10.1016/j.enbuild.2023.112995> [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](#)

Kas linnade kliimastrateegiad on nutikad? = Smartness in the climate strategies of cities

Lylykangas, Kimmo Sakari Maja : Eesti arhitektuuri ajakiri = Estonian architectural review 2021 / lk. 75-81 : fot https://www.ester.ee/record=b1072550*est <https://ajakirimaja.ee/>

Kuidas arvutada hoone süsinikujalajälge?

Kurnitski, Jarek; Lylykangas, Kimmo Sakari EhitusEST 2022 / lk. 22-24 : tab https://www.ester.ee/record=b4442657*est <https://ehitusest.ee/uudis/2022/04/04/hoone-susinikujalajalg/>

Lasiteton parvekkeen vaikutus sisätilan päivänvalo-olosuhteeseen

Abell, Mervi; Huttunen, Risto; Kapulainen, Teemu; Kovalainen, Ville; Lahdensivu, Jukka; Lylykangas, Kimmo Sakari; Nylander, Samuli; Parkkinen, Lauri; Toivonen, Tuomas; Visa, Panu RIL 272-2019 : Parveke- ja terassilasitus rakennusosana : Määräykset, ohjeet ja toimivat käytännöt 2019 / p. 135-139 <https://www.ril.fi/kirjakauppa/ohjeet-ja-normit/ril-272-2019-parveke-ja-terassilasitus-rakennusosana-p-750.html>

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>

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](#)

Prefab light clay-timber elements for net zero whole-life carbon buildings

Päätaalo, Juha; Alao, Percy Festus; Rohumaa, Anti; Kers, Jaan; Liblik, Johanna; Lylykangas, Kimmo Sakari Journal of

Prefab light clay-timber elements for net zero whole-life carbon buildings : [conference paper]

Pääatalo, Juha; **Kers, Jaan**; Rohumaa, Anti; **Alao, Percy Festus**; Liblik, Johanna; **Lylykangas, Kimmo Sakari** 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 124-125 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> https://www.ester.ee/record=b5668645*est

Quantitative Greenhouse Gas Impact Assessment Method for Spatial Planning Policy : QGasSP – Final report

Cachia, Rebecca; **Cerrone, Damiano**; Gartland, Donna; **Grišakov, Kristi**; Heinonen, Jukka; Kriiska, Kaie; **Lylykangas, Kimmo Sakari**; **Norbisrath, Ulrich**; O'Shea, John; **Oviir, Anni**; **Partanen, Jenni Vilhelmiina**; Peterson, Kaja; Walke, Peter R. 2022 <https://www.espon.eu/sites/default/files/attachments/QGasSP%20final%20report.pdf> <https://www.espon.eu/QGasSP>

The role of building morphology on pedestrian level comfort in Northern climate

Eslamirad, Nasim; De Luca, Francesco; **Lylykangas, Kimmo Sakari** Journal of physics : conference series 2021 / art. 012053, p. 1-6 : ill <https://doi.org/10.1088/1742-6596/2042/1/012053> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Synergies and trade-offs between carbon footprint and other environmental impacts of buildings : Cases from Finland, Norway and Estonia

Saneko, Paula; Alhola, Katariina; Chartrand, Emilie; Borg, Alexander; Andresen, Inger; **Lylykangas, Kimmo Sakari**; **Aljas, Hans-Kristjan**; **Kertsmik, Kadri-Ann** 2022 <https://doi.org/10.6027/temanord2022-551>

TalTech mõõtis ära oma CO2 jalajälje ja plaanib selle viia nulli

digi.geenius.ee 2023 [TalTech mõõtis ära oma CO2 jalajälje ja plaanib selle viia nulli](#)

TalTech sai tähtajatu õiguse õpetada tehnilise kallakuga arhitektuuri

Ehitaja 2019 / lk. 6 : fot http://www.ester.ee/record=b1072123*est

TalTechi arhitektuuriõpe sai uue hingamise

Traks, Kristina Mente et Manu 2019 / lk. 20-21 : ill https://www.ester.ee/record=b1242496*est https://www.ttu.ee/public/m/mente-et-manu/MM_02_2019/mobile/index.html

Territorial and consumption-based greenhouse gas emissions assessments : implications for spatial planning policies

Lylykangas, Kimmo Sakari; Cachia, Rebecca; **Cerrone, Damiano**; Kriiska, Kaie; **Norbisrath, Ulrich**; **Walke, Peter R.**; Joutsiniemi, Anssi; Heinonen, Jukka Land 2023 / art. 1144 <https://doi.org/10.3390/land12061144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tuleviku arhitektid TalTechis

Lylykangas, Kimmo Sakari Mente et Manu 2018 / lk. 4-5 : portr http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868826*est