

- 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>
- 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](#)
- Concentrated solar power (CSP) for sustainable architecture to supply domestic hot water and heating loads of buildings**
 Zarrinkafsh, Hamidreza; **Eslamirad, Nasim; De Luca, Francesco** Journal of physics : conference series 2021 / art. 012110, p. 1-6 : ill <https://doi.org/10.1088/1742-6596/2042/1/012110> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [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 and comparison of LEED, BREEAM, and the 19th issue of National Building Regulations of Iran (NBRI) in perspective of sustainability by (MCDM) TOPSIS method**
 Mahdavinnejad, Mohammad Javad; Mehranrad, Mohammad; **Eslamirad, Nasim** Journal of the structural engineering and geotechnics 2019 http://www.qjseg.ir/article_666046.html
- 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](#)
- 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>
- 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>
- Multi-performance method for urban densification**
Sepulveda Luque, Abel; Eslamirad, Nasim; De Luca, Francesco Proceedings of Building Simulation 2023 : 18th Conference of IBPSA 2023 / p. 1169-1176 https://publications.ibpsa.org/conference/paper/?id=bs2023_1307
- Optimum morphology of green sidewalk on thermal comfort and air pollution**
Eslamirad, Nasim; Mahdavinnejad, Mohammadjavad; Dehghani Tafti, Samira 2020 Proceedings of the Symposium on Simulation for Architecture and Urban Design 2021 <http://www.simaud.org/2021/program.php>

Optimum Morphology of Green Sidewalk to Control Pollution and Thermal Comfort

Eslamirad, Nasim; Mahdavinejad, Mohammad Javad; Tafti, Samira Dehghani 13th AESOP Young Academics Conference 2019 : Planning Inclusive Spaces an Inter- and Trans disciplinary Approach, Darmstadt, Germany, April, 2019 2019 / 1 p ["13th AESOP"](#)

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](#)

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](#)