

Cost optimal and nearly zero energy building solutions for office buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek Energy and buildings 2014 / p. 30-42 : ill <https://doi.org/10.1016/j.enbuild.2014.01.039>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Daylight and overheating prediction formulas for building design in a cold climate

Sepulveda Luque, Abel; De Luca, Francesco; Kurnitski, Jarek Journal of building engineering 2022 / art. 103532, 15 p. : ill <https://doi.org/10.1016/j.jobbe.2021.103532> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Delightful daylighting : a framework for describing the experience of daylighting in Nordic homes and 'coupling it with quantitative assessments

Viikberg, Hanna; Sepulveda Luque, Abel; De Luca, Francesco Energies 2022 / art. 1815 <https://doi.org/10.3390/en15051815>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Easy-to-implement simulation strategies for dynamic glare risk assessment based on the European Daylighting Standard

Bueno, Bruno; Sepulveda Luque, Abel 17th International Conference of the International Building Performance Simulation Association (BS 2021), Bruges, Belgium, 1 – 3 September 2021 : proceedings 2021 / p. 1195-1202 [17th International Conference of the International Building Performance Simulation Association \(BS 2021\), Bruges, Belgium, 1 – 3 September 2021](#)
<https://doi.org/10.26868/25222708.2021.30208>

Environmental performance-driven urban design: parametric design method for the integration of daylight and urban comfort analysis in cold climates

De Luca, Francesco Computer-aided architectural design. "Hello, Culture" : 18th International Conference, CAAD Futures 2019, Daejeon, Republic of Korea, June 26–28, 2019 : selected papers 2019 / p. 15-31 https://doi.org/10.1007/978-981-13-8410-3_2
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Facade design principles for nearly zero energy buildings in a cold climate

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2013 / p. 309-321 : ill <https://doi.org/10.1016/j.enbuild.2013.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Holistic approach to design healthy and resilient apartments

Sepulveda Luque, Abel; Smirnov, Roman; Donaire Galiano, María Dolores REHVA European HVAC Journal 2022 / p. 63-69
<https://www.rehva.eu/rehva-journal/chapter/holistic-approach-to-design-healthy-and-resilient-apartments>

Increasing natural daylight levels in atrium type buildings

Koppel, Tarmo; Tint, Piia 56th International Riga Technical University Conference "Scientific Conference on Economics and Entrepreneurship SCEE'2015" : proceedings 2015 / p. 154-155

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>

A method of optimizing fenestration design for daylighting to reduce heating and cooling loads in offices

Voll, Hendrik; Seinre, Erkki Journal of civil engineering and management 2014 / p. 714-723 : ill <https://doi.org/10.3846/13923730.2013.801920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methodology for determining fenestration ranges for daylight and energy efficiency in Estonia

De Luca, Francesco; Dogan, Timur; Kurnitski, Jarek 2018 Proceedings of the symposium on simulation for architecture and urban design 2018 / p. 63–70 : ill <http://www.simaud.org/proceedings/>

Multi-objective optimization for daylight retrofit

De Luca, Francesco; Wortmann, Thomas eCAADe 2020 : Anthropologic – Architecture and Fabrication in the cognitive age : Proceedings of the 38th eCAADe Conference : Education and research in Computer Aided Architectural Design in Europe, Berlin, Germany, 16-17 September 2020 2020 / p. 57-66 : ill http://ecaade.org/downloads/eCAADe2020_volume1-print.pdf
http://papers.cumincad.org/cgi-bin/works/paper/ecaade2020_272 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Solar radiation-based method for early design stages to balance daylight and thermal comfort in office buildings

Sepulveda Luque, Abel; Seyed Salehi, Seyed Shahabaldin; De Luca, Francesco; Thalfeldt, Martin Frontiers of architectural research 2023 / p. 1030 - 1046 <https://doi.org/10.1016/j.foar.2023.07.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Static Shading Optimization for Glare Control and Daylight

De Luca, Francesco; Sepulveda Luque, Abel; Varjas, Toivo Proceedings of the 39th eCAADe Conference - Towards a new, configurable architecture : University of Novi Sad, Novi Sad, Serbia, 8-10 September 2021. Vol. 2 2021 / p. 419-428
<https://doi.org/10.52842/conf.ecaade.2021.2.419> https://papers.cumincad.org/cgi-bin/works/paper/ecaade2021_230 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Sun and wind : integrated environmental performance analysis for building and pedestrian comfort

De Luca, Francesco SimAUD 2019 : 2019 Proceedings of the Symposium on Simulation for Architecture & Urban Design : 10th Anniversary Edition 2019 / p. 3-10 : ill http://www.simaud.org/proceedings/download.php?f=SimAUD2019_Proceedings_HiRes.pdf

Total economy of windows and facades in low energy office buildings

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik; Pikas, Ergo The REHVA European HVAC journal 2014 / p. 19-24 : ill