

Advances in climatic form finding in architecture and urban design

De Luca, Francesco Energies 2023 / art. 3935 <https://doi.org/10.3390/en16093935> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Challenges and ways forward for performance-driven and simulation-based computational design for sustainable cities and communities

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. 189-192
<https://digikogu.taltech.ee/et/Item/c29fc911-ec34-45da-afe6-bc1e8515e15d>

Computational method for variable objectives and context aware solar envelopes generation

De Luca, Francesco; Voll, Hendrik 2017 Proceedings of the Symposium on Simulation for Architecture and Urban Design 2017 / p. 335-342 : ill <http://resolver.tudelft.nl/uuid:4857e388-c354-47a3-9671-0bd8038f76bc>

From envelope to layout : buildings massing and layout generation for solar access in urban environments

De Luca, Francesco eCAADe 2017 : ShoCK! : Sharing of Computable Knowledge : proceedings of the 35th International Conference on Education and Research in Computer Aided Architectural Design in Europe : 20th-22nd September 2017, Rome, Italy. Volume 2 2017 / p. 431-440 : ill <https://doi.org/10.52842/conf.ecaade.2017.2.431> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A novel solar envelope method based on solar ordinances for urban planning

De Luca, Francesco; Dogan, Timur Building Simulation 2019 / p. 817 - 834 <https://doi.org/10.1007/s12273-019-0561-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reverse solar envelope method. A new building form-finding method that can take regulatory frameworks into account

De Luca, Francesco; Dogan, Timur; Sepulveda Luque, Abel Automation in construction 2021 / art. 103518, 18 p. : ill <https://doi.org/10.1016/j.autcon.2020.103518> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solar collection multi-isosurface method : computational design advanced method for the prediction of direct solar access in urban environments

De Luca, Francesco; Voll, Hendrik Computer-Aided Architectural Design : Future Trajectories : 17th International Conference, CAAD Futures 2017, Istanbul, Turkey, July 12-14, 2017 : selected papers 2017 / p. 170-187 : ill https://doi.org/10.1007/978-981-10-5197-5_10 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Solar collection multi-isosurface method : computational design advanced method for the prediction of direct solar access in urban environments

De Luca, Francesco; Voll, Hendrik Future Trajectories of Computation in Design : 17th International Conference, CAAD Futures 2017, Istanbul, July 12-14, 2017 : proceedings 2017 / p. 225 http://caadfutures2017.itu.edu.tr/wp-content/uploads/2017/09/CAADFutures2017_Proceedings-updated-20092017.pdf

Ten questions concerning environmental architectural design exploration

De Luca, Francesco; Natanian, Jonathan; Wortmann, Thomas Building and environment 2024 / art. 111697
<https://doi.org/10.1016/j.buildenv.2024.111697>

Urban Shaderade. Building space analysis method for energy and sunlight consideration in urban environments

De Luca, Francesco; Sepulveda Luque, Abel Computer-Aided Architectural Design. INTERCONNECTIONS: Co-computing Beyond Boundaries. CAAD Futures 2023 : 20th International Conference, Delft, The Netherlands, July 5-7, 2023 : Selected Papers 2023 / p. 317-332 https://doi.org/10.1007/978-3-031-37189-9_21 [Conference proceedings at Scopus](#) [Article at Scopus](#)