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Bottom-Up Urban Building Energy Modelling

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Message from the Guest Editors

Dear Colleagues,

Buildings are one of the main contributors to energy and materials used in urban areas all over the world; however, the lack of information about the energy status and energy potential of building stocks of cities is widespread. Research in urban building energy modelling (UBEM) is thus gaining momentum.

Since this is a nascent field of research, many open questions are still in need of an answer. The main open topics for research include but are not limited to (i) dataset definition and description of buildings (archetypes, prototypes), (ii) modelling of people movements and actions in buildings and in the city, (iii) different modelling for district energy systems, energy storage, and energy networks, (iv) modelling of city microclimate, green and blue infrastructures, and their integration with comfort assessment, (v) heat transfer among buildings and with the external environment, (vi) calibration and validation of models, (vii) life cycle assessment at the urban scale, and (viii) hybrid modelling approaches.



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Special Issue



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Message from the Editor-in-Chief

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