



Optimized Energy and Comfort Management in Shared Smart Buildings

Guest Editor:

Prof. Dr. Alessandro Franco

Department of Energy, Systems,
Territory and Constructions
Engineering (DESTEC), University
of Pisa, 56126 Pisa, Italy

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Message from the Guest Editor

In a moder vision, people should be able to enter SBs and learn about basic environmental variables of the building, such as the indoor temperature, air quality (e.g., in terms of CO₂ levels) and visual comfort, and they should be able to interact with the energy systems (e.g., the HVAC—heating, ventilation and air conditioning—system and lighting systems), to a certain allowed extent (e.g., for security reasons), combined with natural resources (day lighting, outside temperature, etc.).

Accordingly, in this Special Issue, we plan to consider contributions about current energy/environment management strategies for buildings of public use, considering energy efficiency solutions including active occupant interaction. Optimal real-time control strategies for active plants, such as HVAC systems or heat pumps, should be found through a multifaceted optimization problem that considers the different and possibly contrasting desires of people, together with energy consumption reduction in public buildings.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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