Special Issue

Challenges and Research Trends of Thermal Comfort and Energy Efficiency in Buildings

Message from the Guest Editor

To have a sustainable world, we need to reduce CO2 emissions, decrease worldwide energy demand, and significantly lower fossil-fuel energy. The latter can be replaced by electricity generation through renewable sources, and energy efficiency in different sectors should be increased. Buildings are responsible for a significant use of the total energy consumption. Encouraging usage of renewable energy, as well as improvement of energy efficiency, promotes obtaining near zero energy buildings. Energy efficiency should however be achieved while maintaining the occupants in thermal comfort. We can be interested in the energy efficiency of a single household or building, but the current trend is to address communities of buildings, with centralized or decentralized control of local and/or shared energy storages. These are the challenges and research trends addressed by this Special Issue. We call for original papers, review articles, case studies, and new technology analyses that present new research results in Thermal Comfort and Energy Efficiency in Buildings. Porf. Dr. Maria da Graça Ruano

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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