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

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Deadline for manuscript
submissions:

closed (30 April 2022)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Maria da Graça Ruano

Guest Editor



mdpi.com/si/97526

Special Issue



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Message from the Editor-in-Chief

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