

Special Issue

Optimizing Energy Efficiency and Thermal Comfort in Building

Message from the Guest Editor

Today, it is widely accepted that climate change is a global phenomenon. Not only the average temperature is rising, but heatwaves are becoming more frequent. In addition, currently, the construction industry is not really adapted to extreme heat. Thus, research works are necessary not only to analyze how building design will impact the climate, but as well how the future climate should impact building design. On the other hand, the design of buildings aims to achieve a number of objectives in terms of energy consumption and the quality of indoor environments. Thus, managing conflicting criteria in building design optimization is a real challenge that needs to be addressed. This Special Issue aims to present and disseminate the most recent advances related to methods, modelling, experimentation, and application for optimizing energy-efficient design against thermal comfort in indoor spaces. Topics of interest for publication include, but are not limited to:

- Optimal design methodologies
- Multi-objective optimization
- Advanced modelling approaches
- Suitable design of experiments
- Energy efficiency measures
- Thermal comfort assessment
- Efficient cooling and heating systems

Guest Editor

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Message from the Editor-in-Chief

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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