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Adaptive Thermal Comfort for Buildings

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Deadline for manuscript submissions:
closed (20 November 2019)

Message from the Guest Editors

In recent years, provide a comfortable and low energy indoor environment is a becoming a challenge in the building sector. In this context, adaptive comfort plays an important role including adaptation to external temperatures, opening windows and changing clothing. Considering the global tendency towards reducing energy consumption in buildings, the use of natural ventilation coupled with HVAC systems is frequently proposed. Numerous methods have been proposed in order to provide acceptable comfort levels considering a rational use of energy (i.e. Adaptive control algorithms, building automation systems, etc.). However, there is no consensus on comfort thresholds and it is difficult to predict energy consumption. This special issue focuses on the understanding of adaptive comfort in buildings coupled with the energy the energy in use.

- energy in use versus thermal comfort
- adaptive thermal comfort models
- thermal comfort evaluation methods
- building automation systems
- adaptive control algorithms
- mixed mode buildings
- indoor air quality
- temperature limits
- indoor built environment

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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