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Numerical Simulations of Building Thermal and Indoor Air Quality

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Deadline for manuscript submissions:
closed (10 March 2023)

Message from the Guest Editor

Dear Colleagues,

For this Special Issue, we are seeking original academic and industrial contributions using numerical simulations for building physics applications, especially regarding thermal building and air quality problems. Numerical studies can be proposed at the material, wall, and/or building scale. Research may discuss conventional buildings and sustainable constructions made of bio-based or raw earth materials.

The proposed Special Issue is not limited to the building domain; interaction between outdoor and indoor environments may be of particular interest. Lastly, validation of numerical simulations using experimental results and/or the proposition of numerical strategies combining simulation and sensor outputs would be highly appreciated.

Dr. Julien WAEYTENS
Guest Editor

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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