Special Issue

Indoor Air Quality and Ventilation in the Era of Smart Buildings

Message from the Guest Editors

We would like to invite you to contribute to the upcoming Special Edition titled "Indoor Air Quality and Ventilation in the Era of Smart Buildings". This Special Edition will explore the critical role that advanced technologies play in improving indoor air quality (IAQ) and ventilation systems within smart buildings, enhancing not only sustainability but also the health and comfort of occupants. Topics of interest for this Special Edition include, but are not limited to, the following:

- The integration of IoT and AI in IAQ monitoring and control systems;
- Case studies on smart buildings and IAQ optimization;
- Predictive models for indoor air quality and energy efficiency;
- The impact of advanced ventilation systems on occupant health and well-being;
- The role of BIM and BMSs in achieving sustainable IAQ solutions.

We look forward to your contributions and to advancing our collective understanding of the vital role of technology in building healthier and smarter spaces.

Guest Editors

Dr. Carlos Rizo-Maestre

Dr. María Dolores Andújar-Montoya

Prof. Dr. Carlos Pérez-Carramiñana

Dr. Pascual Saura-Gómez

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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