

Recent Developments and Future Perspectives in Heating, Ventilation and Air-Conditioning Systems of Buildings

Guest Editor:

Prof. Dr. Peng Xu

Beijing Key Lab of Heating, Gas Supply, Ventilating and Air Conditioning Engineering, Beijing University of Civil Engineering and Architecture, Beijing 100044, China

Message from the Guest Editor

Heating, Ventilation, and Air-Conditioning (HVAC) systems are crucial to achieve building energy efficiency and sustainability, human comfort, and welfare. The exploration of cooling and heating source technology, terminal conditioning technology, etc., that promote the operation and maintenance practices of HVAC systems continues to deepen. All these factors have motivated numerous researchers to devote themselves to it.

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This Special Issue aims to provide a platform for reporting the latest research progress in HVAC systems and evaluating the application of relevant theories and advanced technologies from a future perspective.

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Special Issue

Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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