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Metrology for Living Environment and Comfort

Guest Editors:

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Deadline for manuscript submissions:
25 July 2024

Message from the Guest Editors

Humans spend up to 80% of their lives in built and living environments. New technological research focuses on the design, implementation, and development of both built and living environments considering the occupants' needs, well-being, and surroundings, as well as climate change impacts and energy-saving solutions. In light of these trends, this Special Issue welcomes papers presenting innovative metrology techniques for designing, constructing, and operating an efficient, safe, comfortable, and healthy built environment, including active and assisted living (AAL). Innovative solutions can be based on the IoT paradigm, BIM, sensors and sensor networks, cutting-edge signal and image processing, structural health monitoring (SHM) techniques, data analytics, artificial intelligence, and interoperability standards.

For scholars interested in submitting papers to the Special Issue, please click "Submit to Special Issue" or contact Astoria Yao at astoria.yao@mdpi.com.

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Editor-in-Chief

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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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