

## Special Issue

# AI-Enhanced Sustainable Design and Planning for Housing and Indoor Environments

### Message from the Guest Editors

Sustainable design and planning play a critical role in shaping healthier, energy-efficient, and climate-resilient living environments. This Special Issue focuses on advancing innovative strategies for housing and indoor environments, with particular emphasis on energy efficiency, indoor environmental quality (IEQ), occupant well-being, climate responsiveness, and environmental resilience. The goal is to promote research that supports the development of sustainable living spaces across diverse geographic and socio-economic contexts. In line with emerging technological advancements, this Special Issue also aims to explore the integration of artificial intelligence (AI) in sustainable design and planning processes. Relevant topics include AI-driven tools for design optimization, predictive analytics for energy use and IEQ performance, adaptive control systems, and machine learning approaches for modeling occupant behavior and preferences. We especially welcome contributions that present novel AI applications and interdisciplinary approaches that enhance sustainability outcomes in the built environment.

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### Guest Editors

Dr. Wei-An Chen

Dr. Mingzhe Liu

Dr. Yuan Gao

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### Deadline for manuscript submissions

15 January 2026



## Sustainability

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### Editor-in-Chief

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