



**buildings**



*Special Issue Reprint*

## **Creation of a Low-Carbon Healthy Building Environment with Intelligent Technologies**

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The aim of the following reprint is to explore and showcase the recent advances and interdisciplinary approaches within the field of human–robot interaction (HRI) and artificial intelligence (AI). This reprint features a selection of distinguished studies, ranging from the development of new methodologies in co-manipulation using electromyography to innovative uses of augmented reality in museums. It includes research that enhances human-AI communication, the adoption of Industry 4.0 technologies in education, and cutting-edge developments in defect detection in industrial settings. These contributions from global experts illuminate the multifaceted nature of technological progress in AI and robotics. By integrating diverse fields such as healthcare, manufacturing, and smart environments, this collection not only pushes the boundaries of current technology but also lays the groundwork for future innovations that could revolutionize our interaction with machines. Each study within this reprint provides a forward-looking perspective on how these technologies can be further refined and effectively integrated into society to improve everyday life and operational efficiency. This reprint is a journey into the potential of HRI and AI to transform our world, ensuring that technology serves as a bridge to more intuitive, inclusive, and sustainable human experiences.



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