Special Issue

Advanced Intelligent Robotic Systems: From Microrobots to Wearable Robots, 2nd Edition

Message from the Guest Editors

Recent advances in intelligent robotic systems, from new materials-based hardware platforms to embodied artificial intelligence methods, exhibit significant potential in applications such as microrobots, surgical robots, rehabilitation robots, supernumerary robots, robotic hands, robot-assisted medical examination and wearable robots. These systems not only benefit from human-assisted paradigms, but also from advancements in deep learning approaches applied across various domains. The aim of this Special Issue is to collect high-quality articles that contain original research on advanced perception, modeling, learning, and control methods for intelligent robotic systems. Particular emphasis will be placed on innovative applications of deep learning, including medical image segmentation and multimodal data integration, alongside human-assisted strategies, in areas such as microrobots, wearable robots, and other emerging robotic platforms.

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