

Special Issue

Intelligent Robotics for Precision Medicine and Advanced Manufacturing

Message from the Guest Editors

This Special Issue aims to disseminate cutting-edge research in the field of intelligent robotics and its transformative applications in precision medicine and advanced manufacturing. We welcome contributions covering a broad spectrum of topics, including (but not limited to) robotic system design, sensing and perception, AI-based planning and control, human-robot collaboration, and real-world implementation challenges. Intelligent robotics is crucial for facilitating innovation in areas such as minimally invasive surgery, personalized rehabilitation, drug discovery, high-precision assembly, adaptive automation, and agile production. Advances in machine learning, computer vision, soft robotics, and human-in-the-loop control continue to expand the possibilities for more responsive, reliable, and autonomous systems. This Special Issue seeks to highlight pioneering methodologies, experimental validations, and integrative approaches that bridge the gap between theoretical research and practical deployment.

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Editor-in-Chief

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