Special Issue

Intelligent Human-Assisted Robotic Systems: From Microrobots to Wearable Robots

Message from the Guest Editors

Recent intelligent human-assisted robotic systems, from Internet-of-Things (IoT)-based hardware platforms to artificial intelligent methods, have shown great potential, being used as microrobots, surgical robots, rehabilitation robots, supernumerary robots, and wearable robots. A growing number of advanced approaches, including new materials and design technologies, data-driven models, advanced perception and control, deep neural networks, multimodal data fusion techniques, and incremental learning, can be applied to enhance human-assisted robotic systems' capability, effectiveness, and efficiency. This Special Issue aims to collect high-quality original research on advanced perception, modeling, learning, and control methods for intelligent human-assisted robotic systems, especially for microrobots and wearable robots. Potential topics include, but are not limited to:

- Microrobot design, modeling, and control.
- Wearable devices designing for microrobot control.
- Wearables based remote sensing.
- Flexible material, electronic skin, and applications.
- Deep-learning approaches to robot-based applications.
- Data-driven methods for wearable robots.

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