Special Issue

Biologically Inspired Robotic Mechanisms, Control, and Multimodal Sensor Fusion for Human-Robot Coexistence

Message from the Guest Editors

Attention in this Special Issue is particularly focused on the various integrations of robotics with biologically inspired mechatronics systems and control technology, and cognitive sensor systems with the goal of developing new multidimensional robotic service. This includes mechanism modeling and design, intelligent control, cognitive algorithm and sensor fusion, robot learning, and cognitive modeling for human–robot collaboration. Topics of interest include (but are not limited to):

- Design, modeling, and control of multi-DOF robotic systems
- Biologically inspired mechanisms and applications
- Development of biomechatronic systems for human-centered robots
- Human-in-loop cooperative robotic systems and compliant control
- Human intention and disturbance estimation
- Vision, sensing, perception, and navigation
- Collaborative robots and human–robot interaction
- Control of multiple robots and network systems
- Artificial intelligence, machine learning
- Multimodal senser system

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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