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

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Deadline for manuscript submissions:

closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

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 sensor system



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Special Issue



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Message from the Editor-in-Chief

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