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Human Robot Interaction and Intelligent System Design

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Humans and robots are expected to work together closely, interactively and collaboratively, sharing working spaces, in a large number of task scenarios. First, intelligent systems need to be designed with the integration of novel and multiple sensors to capture different types of sensing information (such as image, sound, bio-signal, force, tactile) in the working environments. Correspondingly, advanced signal processing and fusion techniques are required to extract important features from multimodal data. With these as inputs, intelligent learning (e.g., imitation learning, deep learning and reinforcement learning), control (such as adaptive control, bio-inspired control) and optimization (such as black box and model-based techniques) algorithms are then needed to improve the robot manipulation abilities and to improve human–robot interaction performances. The goal of the Special Issue "Human Robot Interaction and Intelligent System Design" is to cover recent advancements in system design, advanced sensing, learning, control and optimization for human–robot interaction, as well as its novel applications.

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Message from the Editor-in-Chief

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