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Design, Dynamics and Control of Robots

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Message from the Guest Editors

Dear Colleagues,

Robots are getting increasingly complex in order to achieve difficult operations, which cooperate with or substitute human operators to perform a growing variety of tasks. Robot systems are often designed with comprehensive utilization of sensors, vision modules, actuators, controllers, etc. Therefore, the research on the design, dynamics, and control of various types of robots is of great importance to achieve better performance on different tasks. Nowadays, robot tasks in a wide range of fields require intelligent and flexible actions in unstructured/fast-changing working environments, which brought great challenges to the decision, planning and control of robot systems. On the other hand, a deeper task-specific understanding of the design and dynamics of robot systems is essential to achieve superior task performance both on low-level control and higher lever learning-based decision/planning. Therefore, it is expected that various robot systems could be greatly improved with advances in design, dynamics, and control methods. In addition, the challenges brought by more complex robot applications could also push the development of more powerful control methods.

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Message from the Editor-in-Chief

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