



Advanced Control and Multiobjective Optimization of Multiple Industrial Robots

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Message from the Guest Editors

Dear Colleagues,

With the integration of mechanical, information, electronics, control, intelligence, and other interdisciplinary studies, industrial robotic applications are becoming increasingly complex in both theoretical and practical aspects. Multiple industrial robots (MIRs) have been growing increasingly in various applications in recent years. The main motivation for employing MIRs is that they can be used to increase system effectiveness. With respect to a single autonomous robot or a team of noncooperating robots, MIRs can better perform a mission in terms of time and quality and can achieve tasks not executable by a single robot or can take advantage of distributed sensing and actuation. A wider spatial area can also be covered more efficiently if more robots are deployed, and heterogeneous capabilities can be distributed across the team without having to dramatically change the payload (and thus price) of individual robots.

The contributions to this Special Issue are expected to provide the latest results in collective analysis, estimation, optimization, coordinated control, and intelligent control of complex MIRs.





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Message from the Editor-in-Chief

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