Special Issue

Advanced Control and Multiobjective Optimization of Multiple Industrial Robots

Message from the Guest Editors

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.

Guest Editors

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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