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Autonomous Robots: Design, Sensing and Control

Guest Editors:

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Deadline for manuscript submissions:
closed (15 October 2023)

Message from the Guest Editors

Autonomous robots, the intelligent agents par excellence, designed and engineered to deal with the environment on their own, are capable of functioning for extended periods of time without human intervention.

The development of autonomous robots employed for human service or cooperation, in medical applications, agriculture, construction, transportation, etc., must address highly complex technological and practical challenges in terms of design, sensing and control.

In this Special Issue, we aim to collect the latest research findings and innovative approaches in the field of autonomous robots, design, sensing and control. This includes but is not limited to:

- Innovative autonomous robot design solutions;
- Optimization algorithms for achieving dynamic planning, control, and state estimation;
- Trajectory design for dynamic environments;
- Learning and adaptation in robot control;
- Novel solutions for controlling autonomous robots;
- Autonomous robot sensing and perception;
- Computational architectures for autonomous robots;
- Human–robot interaction;
- Performance analysis of autonomous robots;
- Autonomy and energy efficiency of autonomous robots.

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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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Journal Rank: JCR - Q2(*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

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