Special Issue

Advanced Technologies and Applications in Robotics

Message from the Guest Editors

Robotics integrate a broad spectrum of multidisciplinary areas in computer science and engineering, ranging from fundamental research to real-world practical applications. The large diversity of the design, construction, operation, and use of robots brings both challenges and opportunities to our research community. This Special Issue aims to provide a forum for scientists, engineers, scholars, and students to exchange ideas and update technical knowledge and provide a platform where joint research programmes can be formulated for mutual benefit. The Special Issue welcomes participation and contributions from those involved in both theoretical and practical research on all aspects of robotics. This Special Issue also cooperates with the twenty-seventh International Conference on Automation and Computing (ICAC2022, http://www.cacsuk.co.uk/index.php/icac2022), held at the University of the West of England, Bristol, UK, on 1–3 September 2022. Authors of outstanding papers on topics related to the Special Issue presented at the conference are invited to submit extended versions of their work to this Special Issue.

Guest Editors

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Dr. Zhenyu Lu

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Deadline for manuscript submissions

closed (30 April 2023)

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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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