

## Special Issue

# Mechatronics Systems and Robots

### Message from the Guest Editor

Mechatronics systems and robots are widely being used in various contemporary scenarios, which have a great influence on the real world. Mechatronics involves a synergistic combination of mechanical engineering, electronics, and measurement and control in the design of products and processes; robots, with their versatility and adaptivity, have become the most promising mechatronic system. Thus, there is increasing interest in research on both fields, as well as the fundamental interactions between them. In this Special Issue, we would like to select outstanding papers from the 8th International Conference on Mechatronics System and Robots (ICMSR 2022), as well as to invite contributions of papers from authors outside the conference participants, in order to disseminate and share the recent progress in the following areas:

- Mechanism and machine science;
- Mechanical dynamics and its applications;
- Dynamic mechanical analysis, optimization, and control;
- Bio-inspired robotics;
- Robots in manufacturing;
- Kinematics and dynamics analysis;
- Robotic perceptions and decisions.

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### Guest Editor

Dr. Ming Xie

School of Mechanical & Aerospace Engineering, Nanyang Technological University, Singapore, Singapore

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### Deadline for manuscript submissions

closed (15 March 2023)



## Robotics

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## About the Journal

### Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step. It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

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### Editor-in-Chief

Prof. Dr. Marco Ceccarelli

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