

Special Issue

Vibration Reduction through Reactionless and Control Design for Robotic Mechanisms

Message from the Guest Editors

When robotic mechanisms are in motions, there is often vibration involved. Vibrations are undesirable and will affect the overall performance of a robotic system. Aiming to address the above problem, integration of dynamic balancing and adaptive/hybrid control system is an effective way to reduce vibrations without affecting other performances. This Special Issue will bring researchers to present recent advances and technologies in the field of new dynamic balancing method and adaptive/hybrid control system design for robotic manipulators. Suitable topics include:

- Adaptive/Hybrid control system theories and design
- Design of new dynamic balancing methods
- New vibration-control methods for robotic mechanisms
- Mechatronic approach for vibration reduction
- Mechatronic approach for hybrid control system design
- Applications for the integration of dynamic balancing and hybrid control

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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.

Editor-in-Chief

Prof. Dr. Marco Ceccarelli

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