



Vibration Reduction through Reactionless and Control Design for Robotic Mechanisms

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Message from the Guest Editors

Dear Colleagues,

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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Guest Editors





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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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