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Robotics and Parallel Kinematic Machines

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Message from the Guest Editors

Dear Colleagues,

Robotics and parallel kinematic machines (PKM) have been in existence since the late 20th century. At present, most industries rely on these machines as automation has made complex tasks look much simpler. However, in the domain of robotics, there are still some concepts which are either unexplored or not studied in depth. Some examples include the cuspidal configurations wherein a robot can reach multiple inverse kinematic solutions without reaching singularities, and self-motion conditions in a PKM where the mobile platform can move when all actuators are locked. The objective of this issue is to identify such problems in robotics which are not studied in depth as they can be useful for potential industrial applications in the future. Topics of interest include (but are not limited to):

- Cuspidal robots;
- Self-motion;
- Constraint singularities;
- Parallel robots;
- Tilt and torsion.

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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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