Special Issue

Nature-Inspired Medical Robotics: From Soft Machines to Magnetic Intelligence

Message from the Guest Editors

Nature has always been a source of inspiration for robotics innovation, especially when it comes to designing next-generation medical systems that are safe, adaptive, and minimally invasive. The aim of this Special Issue is, therefore, to gather state-of-the-art research in nature-inspired medical robotics, with an emphasis on soft robotic systems, magnetically actuated devices, and biomimetic design strategies. We encourage submissions that investigate new materials, fabrication methods, actuation and control mechanisms, applications from targeted drug delivery, and minimally invasive diagnostics and smart navigation interventions in complex biological environments. By featuring interdisciplinary research bridging biology, materials science, and robotics, this Special Issue aims to push forward the frontiers of soft and magnetic intelligent robots in medicine.

Guest Editors

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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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