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Frontiers in Bionic and Flexible Robotics

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Deadline for manuscript submissions:

closed (20 December 2022)

Message from the Guest Editors

Dear Colleagues,

Bionic and flexible robotics is an emerging subfield of traditional robotics inspired by biological creatures and activities. This field is becoming more popular because of its several advantages: safe human–machine interaction, working in inaccessible spaces, adaptability to wearable devices, handling delicate objects, etc. As of now, we have come to understand that bionic and flexible robotics offers an exceptional solution for any kind of application that involves intimate human contact (e.g., exoskeletons, prosthetics, surgery, rehabilitation). It is a very young research area with many possibilities to solve optimal shape, modeling, and control issues in flexible robots due to their inherent hyper-redundancy.

The Special Issue aims to publish research papers with theoretical and application-based contributions focusing on novel designs, optimal shape estimation, kinematic modeling, control, soft actuators, analysis, simulations, and experiments for bionic and flexible robots. Review papers are also welcome so that we may provide a comprehensive view of this field.

Dr. Inderjeet Singh Prof. Dr. Paolo Mercorelli 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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