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Design, Planning and Control of Soft and Adaptive Robots

Guest Editors:

Dr. Manolo Garabini

Research Center "E. Piaggio", Department of Information Engineering, University of Pisa, 56122 Pisa, Italy

Dr. Franco Angelini

Research Center "E. Piaggio", Department of Information Engineering, University of Pisa, 56122 Pisa, Italy

Dr. Tom Verstraten

Robotics & Multibody Mechanics Research Group (R&MM) and Flanders Make, Vrije Universiteit Brussel, 1050 Brussels, Belgium

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Message from the Guest Editors

Dear Colleagues,

Due to recent developments in the design, planning and control algorithms of soft and adaptive robots, the time when such robots will begin to effectively and efficiently perform in unstructured environments is rapidly approaching.

This Special Issue will cover all the above-mentioned advancements. Potential topics include, (but are not limited to) the following:

- Proprioceptive and exteroceptive sensing of soft and adaptive robots;
- Software architectures for autonomous soft and adaptive robots;
- Innovative design of soft and adaptive robot bodies;
- Innovative design of soft and adaptive actuators;
- Adaptive navigation in unstructured environments;
- Dynamic motion planning exploiting soft and adaptive robot bodies;
- Impedance planning and control of soft and adaptive robots;
- Model-based and model-free control of soft robots.





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