Special Issue

Emerging Trends in Soft Robotics and Bioinspired Technologies

Message from the Guest Editor

Soft robotics has seen rapid growth over the past 15 years, driven by bioinspired designs and advances in materials, actuation, and fabrication. Key developments include electrically driven systems, mechanical/fluidic logic, sustainable materials, and biohybrid approaches. Innovations in multi-material integration and additive manufacturing have further expanded the field's capabilities, with increasing emphasis on accessible, low-cost fabrication methods.

This *Micromachines* special issue focuses on **microscale and microfabrication advances** in soft robotics, including (but not limited to):

- **Multi-material integration**
- **Embodied intelligence / microfluidic logic**
- **Cost-effective materials & processes**
- **Additive manufacturing of soft robots**
- **Biohybrid robotics**
- **Shape- and stiffness-tunable materials**

We invite researchers at all career stages to contribute original work highlighting these emerging trends.

Guest Editor

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