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Wearable & Soft Robotics Technologies and Beyond

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Message from the Guest Editors

In recent years, the field of wearable robotics has undergone a dramatic change, from rigid systems to soft exoskeletons and suits, emerging as a research topic in robotics and progressively bringing wearable technologies a step closer towards use in daily life. Despite such growing interest in soft wearable robotics, several issues are currently limiting their applicability in daily life, such as non-robust design and control, bulkiness, improper force human–robot interaction, and high power consumption, to mention a few.

This Special Issue aims to bridge the gap between available technologies and application needs. The focus includes novel actuator mechanisms, biologically inspired and biomimetic designs, FES-based hybrid systems, intelligent controls, and user-based evaluations in real-world scenarios. Additionally, we seek research to assess the practical potential and impact of soft wearable robots on people with disabilities, athletes, workers, and others.

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Message from the Editor-in-Chief

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