Special Issue

Wearable Robotics

Message from the Guest Editors

The advancement of robotic technology has enriched the field of wearable robotics, which are significantly used in industry, research, military, and biomedical applications. For example, being able to provide precise, repetitive, and more extended sessions of therapy, robotic orthotic devices are frequently used in neurorehabilitation. On the other hand, motorized prosthetics are frequently used by amputees to perform activities of daily living by having synergetic relationships between their mechanical and control capabilities, and the human neural system. Even though enormous research has been done, the hardware design and control approach of wearing robotics is still evolving. For instance, research has been ongoing to find relatively high power to weight ratio actuators, novel power transmission mechanism, ergonomic kinematic structure, suitable sensors, novel control approach, and so on for wearable robots. This Special Issue aims to gather cutting-edge research contributions of the entire field of wearable robotics, including orthotics and prosthetics for upper limbs, lower limbs, and the full-body for rehabilitation, power augmentation, industry, and military applications.

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