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Soft Exoskeleton and Supernumerary Limbs for Human Augmentation

Guest Editors:

Prof. Dr. Yuichi Kurita
Graduate School of Advanced Science and Engineering, Hiroshima University, Hiroshima, Japan

Prof. Dr. Takayuki Tanaka
Faculty of Information Science and Technology, Hokkaido University, Sapporo, Japan

Deadline for manuscript submissions:
closed (20 November 2022)

Message from the Guest Editors

Dear Colleagues,

Human augmentation is an academic research field that aims to enhance, promote, and expand a person's abilities, not only to supplement or compensate for missing abilities or to maintain abilities. The services expected from human-enhancing machines and tools are not limited to the extension of motor, sensory, and cognitive abilities of a person, or the extension of skills and work performance in using machines and tools, but also include the development of communication, education, training, medical care, and nursing care based on a long-term understanding of the relationships between people and people, and between people and tools. Papers are welcome on topics that are related, but not limited, to:

- co-robots for human augmentation
- digital technologies for physical, cognitive, mental, and perceptional augmentation
- exoskeletons and assistive devices for the amplification of human physical strength and physiological sensing
- implanted technologies and interfaces
- sensors and actuators for smart artifacts and smart textiles
- supernumerary robotic limbs
- technologies to improve human experience and to reduce stress
- etc.

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Special Issue