

Special Issue

Advances, Innovations, and Emerging Trends in Hand and Finger Exoskeletons

Message from the Guest Editors

Due to the biomechanical complexity of the hand, designing effective exoskeletons presents challenges in areas such as adaptive control, haptic feedback, ergonomic mechanical design, user intent detection, and personalized therapy. Overcoming these challenges is essential to improving the functionality, usability, and practical applications of these devices in medical, industrial, and everyday contexts. This Special Issue seeks to publish original research and review articles addressing key advancements in hand and finger exoskeletons including, but not limited to, the following:

- Hand exoskeletons
- Finger exoskeletons
- Modular, rigid, and soft mechanism design
- Rehabilitation robotics
- Assistive technologies
- Virtual environment interaction
- Haptic feedback
- Adaptive control
- Biomechanics and ergonomics
- User intent detection

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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