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Special Issue on Medical Robotics and Human Interfaces

Significant advances have been made in the field of medical robotics in recent decades. Spanning series and parallel robotic architectures, rigid and soft materials, and a variety of control approaches, the potential for robotic applications in medicine remains vast. As the technologies underlying robotic solutions continue to mature and develop, new robotic medical applications will continue to emerge.

A related area of growing interest is the interaction between human operators and robotic medical devices. Without appropriate and user-friendly interfaces, the uses of these technologies are limited. Haptic devices are an example of the profound effect that interface devices can have on practical functionality and applicability of technology in medical applications. The focus of this Special Issue is the intersection of medical robotics and human interfaces for medical applications.

Topic Areas

- Kinematics & dynamics for medical robotics
- Exoskeletons & prostheses
- Humanoid & service robots
- Assistive robots & elderly assistance
- Surgical robots
- Human-robot interfaces
- Haptic devices
- Medical treatments using robotics & automation

Publication Target Dates

Paper submission deadline: **September 15, 2020**
Initial reviews completed: **October 15, 2020**
Special Issue publication date: **March 2021**

Submission Instructions

Papers should be submitted electronically to the Journal at journaltool.asme.org. If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the [ASME Journal of Medical Devices](#) and then select the Special Issue **Medical Robotics and Human Interfaces**. Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

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