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Special Issue on Rehabilitation Robots,  
Devices and Methodologies

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[\*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy\*](#)

**Special Issue on Rehabilitation Robots, Devices and Methodologies**

Most developed countries are encountering an aging society, which results in an increasing morbidity of neuromuscular disabilities and diseases, such as stroke, Alzheimer's disease, etc. Rehabilitation has proven to be an effective therapy, and this calls for the development of assisting devices and methodologies for limb/body and cognitive rehabilitation. In recent decades, the kinematic/dynamic analysis and control of rehabilitation robots and design of rehabilitation methodologies have engaged researchers in mechanical and biomedical engineering to help propose novel engineering solutions to such problems.

This Special Issue of the [\*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy\*](#) will highlight original research and high-quality review articles on rehabilitation robots, devices and methodologies, with a special focus on dynamics, control, kinematics, and sensing/actuation. We invite researchers to submit their unpublished and original work on recent advances in theoretical, experimental, or computational aspects of rehabilitation robotics, devices, and methods as well as practical applications.

**Topic Areas (included, but not limited to)**

- Design and analysis of limb/body function rehabilitation robots and devices
- Design and analysis of cognitive rehabilitation robots and devices
- Kinematic analysis and synthesis of rehabilitation mechanisms and robotic systems
- Dynamics and control of rehabilitation devices
- Rehabilitation methodologies inspired by mechanical structures and materials
- Machine learning driven rehabilitation systems

**Publication Target Dates**

Paper submission deadline:

**October 15, 2019**

Initial reviews completed:

**December 15, 2019**

Special Issue publication date:

**March 2020**

**Submission Instructions**

Papers should be submitted electronically to the Journal at [journaltool.asme.org](http://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 Engineering and Science in Medical Diagnostics and Therapy* and then in the Special Issue dropdown menu choose **Rehabilitation Robots, Devices and Methodologies**. Early submission is highly encouraged. Papers submitted by October 15, 2019, will be reviewed in time for inclusion in the Special Issue. Papers received after that date may still be considered for the Special Issue, if time and space permit.

**Special Issue Editors**

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