上海交通大学自动化系
**Department of Automation**
**Shanghai Jiao Tong University**

系统控制与信息处理教育部重点实验室
Key Laboratory of System Control and Information Processing, Ministry of Education

# 学术报告会

**时　　间：6月21日(周四) 10:00-12:00**

**地　　点：电院群楼2-406会议室**

**联合主办单位：上海交通大学医疗机器人研究院**

## Next Generation Gait Rehabilitation Robotics

### Dr. Yu Haoyong

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**Abstract:**

Stroke is the leading course of adult disability due to the rapid population aging. Robots can be used in stroke rehabilitation to reduce the labor intensity as well as improve functional outcomes. However, the full potential of robot-assisted rehabilitation has not been realized due to the limitation of the design, sensing and control of the robotic systems.

In this talk, a novel robotic exoskeleton and a robotics walker for strike patients to conduct over-ground gait training will be presented, with focus on the perspective on design, sensing, and control for the next generation gait rehabilitation robotics.

**Biography:**

**Dr. Yu Haoyong** is an Associate Professor of the Department of Biomedical Engineering at the National University of Singapore. He received his Bachelor's Degree and Master's Degree from Shanghai Jiao Tong University and his PhD degree from Massachusetts institute of Technology (MIT). He was the Principal Member of Technical Staff in DSO National Laboratories of Singapore before he joined NUS 2010. He is a Principal Investigator of the Singapore Institute of Neurotechnology (SiNAPSE) and the Advanced Robotic Center of NUS (ARC) of NUS. His current research interests include biomedical robotics and devices, rehabilitation engineering and assistive technology, biologically inspired robotics, intelligent control and machine learning.
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