

Intelligent Systems and Technologies in Healthcare and Rehabilitation

Organizer:

- Takenori Obo (Tokyo Metropolitan University)
- Tadamitsu Matsuda (Faculty of Health Science, Juntendo University)

Objective:

The session is dedicated to exploring intelligent systems and technologies within the healthcare and rehabilitation domains. In recent times, there has been significant advancement in the development of diverse robots and information and communication technology (ICT) applications aimed at enhancing elderly care, providing assistance in daily life activities, promoting health, and offering support in rehabilitation efforts. Additionally, artificial intelligence (AI) and computational intelligence (CI) are increasingly employed in signal processing and data analysis, contributing to the creation of more efficient services and applications. The primary objective of this session is to showcase the latest research and developments in advanced systems and technologies for healthcare and rehabilitation.

The topics of this special session include but are not limited to:

- Biomedical Signal Processing
- Motion Analysis in Rehabilitation
- Multi-modal Sensing for Healthcare and Rehabilitation
- Wireless/Wearable Health Monitoring
- Wireless Sensor Networks for Smart Healthcare
- Rehabilitation and Assistive Robotics