

IEEE/ICME CME 2011 Conference Workshop

Tutorial Workshop

Wednesday, May 25, 2011
6F, Sinoway Hotel, Harbin

Neural Rehabilitation on SensoriMotor Functions

Venue: 8:30 - 12:00, Room 1, Haitang Hall

Organizers: Jiping He - Arizona State University, USA;
Huazhong University of Sci Tech, Wuhan, China
Bi Sheng - Head and Professor of Department of PM&R;
Chinese PLA General Hospital; P.R.China

Workshop Abstract and Objectives:

Aging population growth and more survivors of neurological trauma and diseases impose a significant demand for care and rehabilitation facilities. In this workshop we assembled a group of experts who have been pursuing research to understand the mechanisms for sensorimotor function recovery and develop systems to facilitate and improve the care and rehabilitation to help patients regain independent living. From their experience and discoveries valuable knowledge and key issues to effective rehabilitation and functional devices will be introduced and presented. Finally a panel discussion will be presented for all attendees to comment and discuss their concerns and how to contribute to finding solutions for the urgent societal challenge facing China and the world.

List of Speakers and Schedule:

Time	Topics	Speaker List
8:30-8:35, opening remark	Welcome and theme	Prof. Jiping He workshop organizer
8:35-9:00, Talk 1	Stroke Rehabilitation and Robotic Training	Dr. Bi Sheng
9:00-9:25, Talk 2	Enhanced sensory feedback in motor training in stroke survivors	Prof. Wen Liu, University of Kansas Medical Center, USA
9:25-9:50, Talk 3	Developing Safe and Affordable Rehabilitation Robot for home based therapy	Prof. Jiping He, Arizona State University, USA; Huazhong University of Sci Tech, Wuhan, China
9:50-10:05	Coffee Break	
10:05-10:30, Talk 4	Combined passive stretching and active movement rehabilitation in neurological disorders using a portable robot	Dr. Li-Qun Zhang, Rehabilitation Institute of Chicago, USA
10:30-10:55, Talk 5	Development of Myoelectric Controlled Multifunctional Prosthesis for Upper-Limb Amputees	Dr. Guanglin Li, Shenzhen, China
10:55-11:20, Talk 6	Towards neural control of artificial legs	Professor Helen Huang, University of Rhode Island, USA
11:20-11.45, Talk 7	Developing Hybrid FES/Robot Training Device for Stroke Rehabilitation	Professor Ning Lan, Med-X Rehab Institute, Shanghai Jiaotong University, China
11:45-12:00	Panel Discussion	Moderators: all speakers