2009ICORR WS-1 “Rehabilitation Robotics: Upper Extremity”
(10:00-13:00)

10:00-10:30  Junji Furusho (Osaka University)
Identify existing rehabilitation robots for upper extremities, their design choices and limitations. The goal is here is to present a general overview of the different robots, their design philosophies, and their limitations (including passive-type but not focusing too much).

10:30-11:00  Hermano Igo Krebs (MIT)
Key general clinical results on the use of therapeutic robotics for stroke rehabilitation.

11:00-11:20  Hermano Igo Krebs (MIT):
The potential of rehabilitation robotics as an evaluation tool.

11:20-11:40  Hermano Igo Krebs (MIT):
Models for neuro-recovery.

11:40-11:55  Junji Furusho (Osaka University)
Example of Application: passive-type rehabilitation robotics.

11:55-12:00  Akio Inoue (ERtec Co Ltd.):
Demonstration of ER brake/clutch.

12:00-12:10  Seiichi Takarabe (Information Technology Development JAPAN INC.):
Control system of rehabilitation robots for upper extremities.

12:10-12:20  Kunihiko Oda (Osaka Electro-communication University):
Presentation of a therapeutic skill by robotics.

12:20-12:30  Takuya Ozawa (Kano General Hospital) and Junji Furusho (Osaka University):
Clinical tests for assessment of synergy movements of stroke patients using PLEMO.

12:30-13:00  Hermano Igo Krebs (MIT), Junji Furusho (Osaka University) and Seiichi Takarabe (Information Technology Development JAPAN INC.):
Questions and Answers.