Program at a glance

Tuesday 12 June 2007

Special Sessions (SS) and Workshops (WS)		
08.00-20.00	Registration	(Conference Service Desk – Foyer)
09.00-13.00	WS1 - Clinical Perspectives of Hybrid Bionic Systems	(Rvb)
	SS2- Human Motion Analysis and Neurorehabilitation	(JdR2)
	SS5a - Robot Aided Identification of Neuromuscular Properties I	(VSg)
11.00-13.00	SS1 - Human-Robot Interfaces	(JdR1)
	SS3 - Robotic Wheelchairs (JdR3)	
13.00-14.00	Lunch (Brasserie and Lounge Circles)	
14.00-18.00	WS2 - Stroke Rehabilitation	(Rvb)
	SS5b - Robot Aided Identification of Neuromuscular Properties II	(JdR1)
	SS6 - Neural Interfaces for the Control of Robotic Artefacts	(JdR2)
	SS7 - Rehabilitation of Hand Function	(JdR3)
15.00-18.00	SS4 – Touch Sensing for Neurocontrolled Prosthetic Hands	(VSg)

Wednesday 13 June 2007

Day 1		
07.00-14.00	Registration	(Conference Service Desk – Foyer)
08.15-08.30	Opening	(JdR1-3)
08.30-09.15	Plenary Lecture Professor Homayoon Kazerooni	(JdR1-3)
	That which does not stabilize, will only make us stronger.	
09.15-10.00	Fast Forward Presentations	(JdR1-3)
10.00-11.30	INT1 - Interactive Sessions	(JdR4-7)
11.30-13.00	POD1 - Podium Presentations Therapy Robotics I	(JdR1-3)

1. *Task-Orientated Biofeedback System for the Rehabilitation of the Upper Limb (81)*
2. *Intuitive human interactive with an arm robot for severely handicapped people - A One Click approach (113)*
3. *An fMRI compatible haptic interface with pneumatic actuation (136)*
4. *Methods for Evaluating and Improving Interlimb Coordination for Bimanual Robotic Therapy after Stroke (90)*
5. *Development of a Systems Architecture for Robot-Aided Telerehabilitation (36)*

13.00-14.00	Lunch	(Brasserie and Lounge Circles)
14.00-14.30	Forum Discussion Users on Assistive Robotics	(JdR1-3)
14.30-16.00	POD2 - Podium Presentations Assistive Robotics I	(JdR1-3)

1. *Design and Construction of a Robotic Gripper for Activities of Daily Living for people with Disabilities (89)*
2. *The SDM Hand as a Prosthetic Terminal Device: A Feasibility Study (179)*
3. *Grasp force optimization in the design of an underactuated robotic hand (147)*
4. *Progress Towards the Development of a Highly Functional Anthropomorphic Transhumeral Prosthesis (54)*
5. *Optoelectronic-Based Flexible Contact Sensor for Prosthetic Hand Applications (86)*

16.00-16.45	Fast Forward Presentations	(JdR1-3)
16.45-18.15	INT2 - Interactive Sessions	(JdR4-7)
18.15-19.00	LAB - Laboratory Presentations	(JdR1-3)
19.00	Steering Committee Assembly	

Thursday 13 June 2007

Day 2

08.15-08.30	Opening	(JdR1-3)
08.30-09.15	Plenary Lecture prof. Frans van der Helm	(JdR1-3)

Diagnostic Robotics: Robot manipulators for quantifying position,
velocity and force reflex gains.

09.15-10.00	Fast Forward Presentations	(JdR1-3)
10.00-11.30	INT3 - Interactive Sessions	(JdR4-7)
11.30-13.00	POD3 - Podium Presentations Assistive Robotics II	(JdR1-3)

1. *Assistive Technology: A novel approach to evaluation (152)*
2. *Compiling a Medical Device File and a Proposal for an International Standard*
   for Rehabilitation Robots (99)
3. *Rehabilitation walker system with standing assistance (42)*
4. *Design of the Modular Arm Robot System (64)*
5. *Developing An Intelligent Robotic Arm for Stroke Rehabilitation (180)*

13.00-14.00	Lunch	(Brasserie and Lounge Circles)
14.00-14.30	Forum Discussion Users on Assistive Robotics	(JdR1-3)
14.30-16.00	POD4 - Podium Presentations Control	(JdR1-3)

1. *Real-Time Control of the Hand by Intracortically Controlled Functional*
   Neuromuscular Stimulation (92)
2. *Low level control in a semi-autonomous rehabilitation robotic system via*
   a Brain-Computer Interface (137)
3. *Development of Vision-Based Navigation for a Robotic Wheelchair (174)*
4. *A Configuration-Space Approach to Controlling a*
   Rehabilitation Arm Exoskeleton (51)
5. *Biomechanical Design of a Powered Ankle-Foot Prosthesis (68)*

16.00-16.45	Fast Forward Presentations	(JdR1-3)
16.45-18.15	INT4 - Interactive Sessions	(JdR4-7)
18.15-18.30	"Rock & Rolstoel"	(JdR1-3)
19.00-23.00	Beach Barbeque Dinner	(Het Zuiderbad – outside hotel)

Friday 12 June 2007

Day 3

08.15-08.30	Opening	(JdR1-3)
08.30-09.15	Plenary Lecture Just Child's Play?	(JdR1-3)

- Applications of Robot Assisted Play in Autism Therapy - Professor Kerstin Dautenhahn

09.15-10.00	Fast Forward Presentations	(JdR1-3)
10.00-11.30	INT5 – Interactive Sessions	(JdR4-7)
11.30-13.00	POD5 – Podium Presentations Therapy Robotics II	(JdR1-3)

1. *Assistive Technology: A novel approach to evaluation (152)*
2. *Compiling a Medical Device File and a Proposal for an International Standard for*
   Rehabilitation Robots (99)
3. *Rehabilitation walker system with standing assistance (42)*
4. *Design of the Modular Arm Robot System (64)*
5. *Developing An Intelligent Robotic Arm for Stroke Rehabilitation (180)*

13.00-13:30	Conference Closing & Awards Ceremony	
13.30-14.00	Take away Lunchbox	
14.00-18.00	Rehabilitation Robotics Research Roadmap Discussion	(JdR1-3)