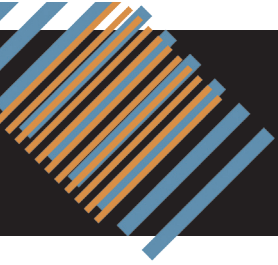


## Program at a glance

Monday - June 27, 2011

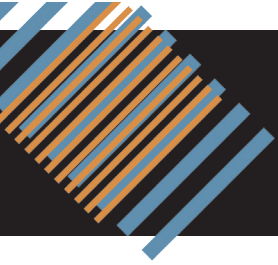
INRS				ICVR
<b>08:00 – 09:30</b> Coffee and registration				<b>08:00 – 08:30</b> Coffee and registration
<b>09:30 – 12:00</b> (HPH, G1) Robotics in the rehabilitation of upper limb function in SCI <i>Armin Curt</i>	<b>09:30 – 11:30</b> (HPH, G2) Very early rehabilitation <i>Andreas Luft</i>	<b>09:30 – 10:30</b> (HPV, G4) Implementation of robotics in clinical settings <i>Leslie VanHiel</i> <i>Kerstin Baldauf</i> <i>Chan Kay Fei</i>	<b>09:30 – 10:30</b> (HPV, G4) Non invasive spinal assessment <i>Cesare Mannhart</i>	<b>08:30-12:00</b> (HCI, J3) Virtual Reality Technology for the Therapist <i>Greg Burdea, Albert Rizzo, Patrice Weiss</i>
	<b>10:30 – 11:00</b> Coffee break/poster/exhibition		<b>11:00 – 12:00</b> (HPV, G4) Virtual reality-based rehabilitation with YouGrabber and YouKicker <i>Oliver Ullmann</i> <i>Daniel Kiper</i>	<b>09:30-12:00</b> (HCI, J4) Virtual Reality for Arm Therapy <i>Andreas Luft</i>
<b>11:30 – 12:30</b> (HPH, G1) Erigo basic <i>Arash Dodge</i>	<b>11:00 – 12:00</b> (HPH, G3) Lokomat basic <i>Julia Bühlmeier</i>	<b>08:30-12:00</b> (HCI, J6) Microsoft Kinect/Prime-sense Sensing Systems for Virtual Rehabilitation <i>Belinda Lange &amp; Albert Rizzo</i>		
<b>12:00 – 13:00</b> Lunch/poster/exhibition	<b>12:30 – 13:00</b> Lunch/poster/exhibition	<b>12:00 – 13:00</b> Lunch/poster/exhibition		<b>08:30-12:00</b> (HCI, J7) Successful operational deployment of telerehabilitation <i>Henry Mulder et al.</i>
<b>13:00 – 15:15</b> (HPH, G1) Robot-supported locomotor training in pediatric neurorehabilitation: application, assessment and achievements <i>Huub van Hedel</i>	<b>13:00 – 14:00</b> (HPH, G2) ArmeoPower basic <i>Alexander Duschau-Wicke</i>	<b>13:00 – 14:00</b> (HPH, G3) Lokomat advanced <i>Julia Bühlmeier</i>	<b>13:00 – 14:00</b> (HPV, G4) Pablo Plus - upper limb rehabilitation <i>Maik Hartwig</i>	<b>13:00 – 13:15</b> (G5) Conference welcome Kynan Eng, Daniel Thalmann
	<b>14:00 – 14:15</b> Coffee break/poster/exhibition		<b>14:15 – 15:15</b> (HPV, G4) Amadeo - advanced fingerrehabilitation <i>Goncalo Goncalves</i>	<b>13:15 – 14:00</b> (G5) Podium session 1 Sensory impairment
	<b>14:15 – 15:15</b> (HPH, G2) ArmeoSpring basic <i>Peter Schenk</i>	<b>14:15 – 15:15</b> (HPH, G3) Valedo basic <i>Jan Kool</i> <i>Eelco Sengers</i>		<b>14:00 – 15:15</b> (G5) Podium session 2 Posture and balance
<b>15:15</b> End of workshops				<b>15:15 – 15:45</b> Coffee break/poster/exhibition
<b>15:45</b> Start social event INRS 2011 hosted by Hocoma				<b>15:45 – 17:00</b> (G5) Podium session 3 Post-stroke rehabilitation
				<b>18:30 – 20:00</b> Welcome drink Zunfthaus zur Meisen



Tuesday - June 28, 2011

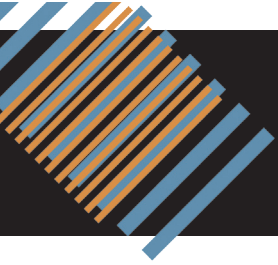
INRS	ICVR
<b>08:30 – 09:00</b> Welcome coffee and registration	
<b>09:00 – 09:10 (G1)</b> Welcome address	
<b>09:10 – 09:45 Keynote lecture (G1)</b> Physiological rationale for Assist-as-Needed control in facilitation of recovery of stepping <i>Reggie Edgerton</i>	
<b>09:45 – 10:20 Keynote lecture (G1)</b> Virtual Rehabilitation: Emerging opportunities and challenges for promoting access <i>Skip Rizzo</i>	
<b>10:20 – 10:50</b> Coffee break/poster/exhibition	
<b>10:50 – 11:15 (G2)</b> Clinical application of neuroscientifically based interventions for the neurologically disabled patient <i>Susan Woll, Jan Utley</i>	<b>10:50 – 11:50 (G3)</b> Podium session 4 Games for rehabilitation
<b>11:15 – 11:40 (G2)</b> fNIRS monitoring of neurorehabilitation <i>Ichiro Miyai</i>	
<b>11:40 – 12:05 (G2)</b> What should we really be doing? Lessons from 15 years of chronic stroke rehabilitation research <i>Jill Whitall</i>	<b>11:50 – 12:35 (G3)</b> Podium session 5 Upper limb rehabilitation
<b>12:05 – 12:30 (G2)</b> Strategies for neuromuscular recovery after spinal cord injury <i>Susan Harkema</i>	
<b>12:30 – 14:00</b> Lunch/poster/exhibition	
<b>14:00 – 14:25 (G2)</b> Acceptance of impairment based rehabilitation robotics in the clinic and at home, what is required? <i>Jules Dewald</i>	<b>14:00 – 14:45 (G3)</b> Improving impaired balance function for posture and gait: on-line versus carry-over effects of prosthetic feedback <i>John Allum</i>
<b>14:25 – 14:50 (G2)</b> Clinical use of Rehabilitation Robotics: Getting to best practices <i>Michael Boninger</i>	
<b>14:50 – 15:15 (G2)</b> Translating upper limb rehabilitation technologies into clinical practice: what are the critical determinants? <i>Jane Burridge</i>	<b>14:45 – 16:00 (G3)</b> Podium session 6 Gait, locomotion, navigation





<b>15:15 – 15:35 (G2)</b> Physiological basis of an effective training after a stroke or spinal cord injury <i>Volker Dietz</i>	
<b>15:35 – 16:30</b> Coffee break/poster/exhibition	<b>16:00 – 16:30</b> Coffee break/poster/exhibition
<b>16:30 – 16:35 (G2)</b> Evidence versus experience – Introduction <i>Andreas Luft</i>	<b>16:30 – 17:30 (G3)</b> Podium session 7 Rehabilitation for brain injuries
<b>16:35 – 16:50 (G2)</b> The evidence so far and what should we do next <i>John Krakauer</i>	
<b>16:50 – 17:00 (G2)</b> Clinical trial methodology <i>Michael Weller</i>	
<b>17:00 – 17:20 (G2)</b> Practical Considerations in Formulating Stroke Rehabilitation Clinical Trials <i>Steve Wolf</i>	
<b>17:20 – 18:00 (G2)</b> Roundtable discussion: Evidence versus experience	<b>17:30 – 18:30 (G3)</b> ISVR members meeting

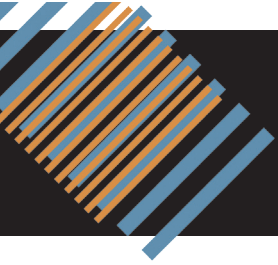




Wednesday - June 29, 2011

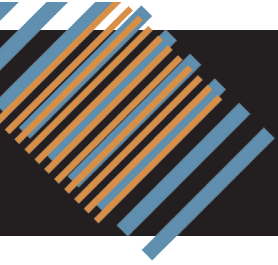
INRS	ICVR	ICORR
<b>07:30 – 08:00</b> Welcome coffee and registration		
<b>08:00 – 08:20</b> (G1, G2) Welcome address		
<b>08:20 – 09:00 Keynote lecture</b> (G1, G2) Cognitive Neuro-Prosthetics: From virtual limbs and avatars to robotic chairs <i>Olaf Blanke</i>		
<b>09:00 – 09:40 Keynote lecture</b> (G1, G2) Rehabilitation robotics – closing the gap between expectation and current clinical performance <i>Zev Rymer</i>		
<b>09:40 – 10:20</b> (G1, G2) Interactive podium presentation, fast forward (45s each)		
<b>10:20 – 10:50</b> Coffee break/poster/exhibition	<b>10:20 – 10:50</b> Coffee break/poster/exhibition	<b>10:20 – 11:15</b> Poster session 1/exhibition/coffee break
<b>10:50 – 11:15</b> (G2) Robot-assisted neurorehabilitation for children: some non-evidence based considerations <i>Andreas Meyer-Heim</i>	<b>10:50 – 12:35</b> (G3) Podium session 8 VR training for pain and disability	
<b>11:15 – 11:40</b> (G2) Robotic locomotor training: More than going through the motions <i>Carolynn Patten</i>		<b>11:15 – 12:30</b> (G1) Podium session 1 5 x 15 min (12 + 3 min)  Orthotics and prosthetics
<b>11:40 – 12:05</b> (G2) Clinical evidence for upper-extremity rehabilitation in chronic stroke and implications for use of robotic technology: results of VA ROBOTIC clinical trial <i>Albert Lo</i>		
<b>12:05 – 12:30</b> (G2) Measuring and augmenting Locomotor recovery after SCI with spinal cord stimulation <i>Keith Tansey</i>		
<b>12:30 – 14:00</b> Lunch/poster/exhibition		





<b>14:00 – 14:40 Keynote lecture (G1, G2)</b> The future of neurorehabilitation: best practice is theoretically inspired, grounded in science and patient-centered <i>Carolee Winstein</i>	
<b>14:40 – 15:20 Keynote lecture (G1, G2)</b> TUM Agetech: A framework for pervasive medical devices for elderly <i>Tim Lüth</i>	
<b>15:20 – 16:00 (G1, G2)</b> Interactive podium presentation, fast forward (45s each)	
<b>16:00 – 16:30</b> Coffee break/poster/exhibition	<b>16:00 – 17:00</b> Poster session 2/exhibition/coffee break
<b>16:30 – 16:50 (G2)</b> The impact of robotic technologies in neurorehabilitation and for assistive devices: lesson learnt and perspectives <i>Franco Molteni</i>	<b>16:30 – 17:30 (G3)</b> Podium session 9 Rehabilitation for children
<b>16:50 – 17:10 (G2)</b> Biomimetic upper limb NMES integrated with eye tracking in hybrid assistive exoskeletons <i>Giancarlo Ferrigno</i>	
<b>17:10 – 17:30 (G2)</b> EMG-controlled functional electrical stimulation: devices and methods <i>Thomas Schauer</i>	
<b>17:30 – 17:50 (G2)</b> Robotic technologies for multiple sclerosis <i>Vittorio Sanguinetti</i>	<b>17:30 – 18:00 (G3)</b> Awards and farewell
<b>17:50 - 18:10</b> Transfer to gala dinner location at the venue Lake Side Zurich ( <a href="http://www.lake-side.ch">www.lake-side.ch</a> ). Several buses at different times will be organized.	
<b>17:00 – 18:00 (G1)</b> Podium session 2 4 x 15 min (12 + 3 min)  Neuroprosthetics & Brain Machine Interfaces	

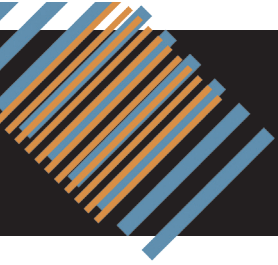




**Thursday - June 30, 2011**

ICORR
<b>08:30 – 09:00</b> Welcome coffee
<b>09:00 – 09:40 Keynote lecture (G1)</b> Neuromuscular model of human walking: implication on prosthetic leg design <i>Hugh Herr</i>
<b>09:40 – 10:20 (G1)</b> Fast-forward session (45s each)
<b>10:20 – 11:15</b> Poster session 3 and exhibition/coffee break
<b>11:15 – 12:30 (G1)</b> Podium session 3 5 x 15 min (12 + 3 min)  Evaluation & clinical experience
<b>12:30 – 13:45</b> Lunch
<b>13:45 – 14:30 (G1)</b> User involvement session  The loss of independence is a major point of concern after disease or accident. Five people, who experienced physical constraints as a result of accidents, stroke, or blindness, will talk about the challenges they face in daily life. They will share with us their experiences with robotics as therapeutic tools and daily life aids, how these robotics facilitate their independence, and which technical changes could further improve their activities and participation in daily life.
<b>14:30 – 15:30 (G1)</b> Podium session 4 4 x 15 min (12 + 3 min)  Upper limb robotics
<b>15:30 – 16:00 (G1)</b> Fast-forward session (45s each)
<b>16:00 – 17:00</b> Poster session 4 and exhibition/coffee break
<b>17:00 – 18:00 (G1)</b> Podium session 5 4 x 15 min (12 + 3 min)  Orthotics
<b>18:00</b> Welcome reception and lab visits at ETH Dome





**Friday - July 1, 2011**

<b>ICORR</b>			
<b>07:30 – 09:00</b> Welcome coffee			
<b>07:45 – 08:50 (G1)</b> ICORR society kick-off <i>J. Patton, R. Loureiro, W. Harwin</i>			
<b>09:00 – 09:40 Keynote lecture (G1)</b> Robotic and neuroprosthetic systems for neurorehabilitation after spinal cord injury <i>Grégoire Courtine</i>			
<b>09:40 – 10:20 (G1)</b> Fast-forward session (45s each)			
<b>10:20 – 11:15</b> Poster session 5 and exhibition/coffee break			
<b>11:15 – 12:15 (G1)</b> Podium session 6 4 x 15 min (12 + 3 min)  Neuroscience robotics			
<b>12:30 – 13:45 (G1)</b> Awards & closing ceremony Lunch/exhibition			
<b>ICORR workshops</b>			
<b>13:45 – 15:45 (G1)</b> Implementation of impairment based rehabilitation robotics <i>J. P. A. Dewald</i>	<b>13:45 – 15:45 (G2)</b> Detecting motor intention in rehabilitation <i>K. Ito, K. Nagai</i>	<b>13:45 – 18:15 (G5)</b> Clinical insights for rehabilitation engineers <i>J. Burridge, A.-M. Hughes, P. Feys, A. Timmermans, G. Prange, J. Buurke</i>	<b>13:45 – 18:15 (G4)</b> Physiological principles of locomotion required for robot design <i>V. Dietz, A. König, H. Vallery, R. Ronsse</i>
<b>15:45 – 16:15</b> Coffee break			
<b>16:15 – 18:15 (G1)</b> Motor skill learning and neuro-rehabilitation <i>V. Sanguineti, E. Burdet</i>	<b>16:15 – 18:15 (G2)</b> Brain-computer interfaces for communication and control <i>M. Zeintlinger</i>		

