

RehabWeek 2023 - Workshop Program - September 24, 2023

	Workshop Room 1	Workshop Room 2	Workshop Room 3	Workshop Room 4	Workshop Room 5	Workshop Room 6	Workshop Room 7	Workshop Room 8	Workshop Room 9	Workshop Room 10	Workshop Room 11	Workshop Room 12
08:15 - 09:45	<p>W01 XCognitive rehabilitation for dementia</p> <p>Organizer: Ariene Atwell Speakers: Shital Desai, Rochelle Midland Virtual Speaker: TBA</p>	<p>W02 Ethical Implications of Artificial Intelligence and Sensing Devices in Rehabilitation</p> <p>Organizer: Shehroz Khan Speakers: Ryan Koh, Yue Li, Dinesh Kumbhkar Virtual Speakers: Tatyana Mollayeva, Lynn Haslam-Larmer, Andria Bianchi</p>	<p>W03 The Challenge of Tuning Robot-Assisted Gait Therapy to Patients' Individual Needs: What to Tune? That's the Question</p> <p>Organizer: Cristina Bayón, Edwin van Asseldonk and Eduardo Razon Speakers: Federica Tamburella, Alejandro Melendez-Calderton, Florian Van Dellen, Thomas Bulea</p>	<p>W07 Hyperbaric Oxygen Therapy in Neuro-rehabilitation in Persons with Brain Injury</p> <p>Organizer: Abhishek Srivastava Speakers: Navita Vyas, Abhishek Srivastava</p>	<p>W05 ICF Based, App-Integrated Initial Patient Assessment - How can we Generate Activity Based, Patient Focused Therapy Goals With Structured Core Sets?</p> <p>Organizer: Dennis Velt Speakers: Simon Krenn, Sophia Frueh, Laura Marriott</p>	<p>W06 The Spectrum of Gait Training</p> <p>Organizer: Jake Kee Speakers: Jake Kee, Lukas Dufault</p>	<p>W04 Novel Educational Pathways in Rehabilitation</p> <p>Organizer: Chris Easthope Awali Jayaraman, Zan Koh, Alison Watt Speakers: Desiree Beck, Anur, Alessandra Pedrocchi, Richard Lieber, Franco Molteni</p>	<p>W08 Brain Computer Interfaces for Rehabilitation and Assistive: Moving from the Lab to the Clinic</p> <p>Organizer: Nicole Wenderoth Speakers: Corti Guan, Jose del R Millan, Surja Soekadar, Kathy Ruddy</p>	<p>W09 Natural interfacing and embodiment of assistive and rehabilitation technologies</p> <p>Organizers: Patricia Cappi-Morales, Dario Falina, Cristina Piazza Speakers: Silvestro Micera, Helen Huang, Silvia Muzeli, Blair Lock, Jose Gonzalez</p>	<p>W10 Fostering Successful Implementation and Adoption of Digital Technology</p> <p>Organizer: Kathryn Jarvis Speakers: Rachel Stockley, Sureshkumar Kamalakannan, Kathryn Jarvis</p>	<p>W11 Care discussion in feasibility of Telerhabilitation with Seniors with Deconditioning conditions in Singapore</p> <p>Organizer: Sylvia Liew Virtual Speaker: TBA</p>	<p>W12 Advances in Electrical Stimulation Therapies After Spinal Cord Injury</p> <p>Organizer: David Dolbow Speakers: Glen Davis, David Dolbow, Ashraf Gorgey, Ines Bensch</p>
09:45 - 10:30	Coffee Break											
10:30 - 12:00	<p>W13 Value-Based Neuro-Therapy - What is Needed for Useful Data Interpretation? - A Live Demonstration of Data-Driven Robotic Gait Therapy, Intra-Session Labeling and Near-Time Data Reporting</p> <p>Organizer: Dennis Velt & Alison Watt Speakers: Dennis Velt, Rupert Klubs-Pfeiffer, Gemot Gremler, Alison Watt</p>	<p>W14 Building Capacity to Engage End Users in Advanced Technology Implementation throughout a Continuum of Care</p> <p>Organizer: Amber M Walter Speakers: Matt Wilks</p>	<p>W15 From brain recovery knowledge to best clinical practice and technological tools development: Neurovision and Duasleike as examples</p> <p>Organizer: Manuel Murie-Fernandez Speakers: Manuel Murie-Fernandez, Carmen Bhamonde</p>	<p>W16 Upper limb robotics and their influence on functional connectivity and motor network changes after stroke: an evidence based practice framework.</p> <p>Organizer: Jose Lopez Speakers: Jose Lopez, Cristina Vazquez, Chen Ong Leong Virtual Speakers: TBA</p>	<p>W17 Family Based Rehabilitation in Developing and under developed countries</p> <p>Organizer: Nirmal Surya Speakers: Nirmal Surya, Srivastava Abhishek, Hitav Someshwar</p>	<p>W18 recoVeriX - The Unique Stroke Neurorehabilitation for Stroke of Any Stages</p> <p>Organizer: Christy Li Speakers: Marc Sebastian, Christoph Guger</p>	<p>W19 Multichannel FES for gait rehabilitation after stroke</p> <p>Organizer: Soetens Elodie Speakers: Lana Popovic Manešić, TBA</p>	<p>W20 Balance Control for Lower-Limb Prostheses and Exoskeletons</p> <p>Organizer: Maura Eyeld & Edwin van Asseldonk Speakers: Aston Young, Elodie Dalin, Nishi Sheethapathi, Michael Rafter</p>	<p>W21 Human Modeling in Rehabilitation Robotics</p> <p>Organizer: Giacinto Barresi Speakers: Giacinto Barresi, Federico Tessari, Lorenzo De Micheli, Satohi Muraki, Claudio Pizzolatto, Michael Holmes, Ang Wei Tech, Herman van der Kooy, Claudio Castellini</p>	<p>W22 Transfer of Research into Clinics for Upper Extremity Assessment in Cervical Spinal Cord Injury - The Patient Gain of Clinician, Therapist and Engineer Collaboration</p> <p>Organizers: Cristian Federico Paliussola Speakers: Ian Ffiden, Ines Bensch, Cristian Paliussola, Marie Albery</p>	<p>W23 Boosting the Implementation of Tele-Assessments for Individuals With Stroke</p> <p>Organizer: Lena Sauerzopf, Michael Sy, Raymond Francis R. Sarmiento, Martina Spies Speakers: Martina Spies, Lena Sauerzopf, Michael Sy, Raymond Francis R. Sarmiento, Thery Keller, Liliana Paredes</p>	<p>W24 Impact of transcutaneous spinal stimulation and other neuromodulatory techniques on recovery following neurological injuries</p> <p>Organizer: Anuj Jayaraman Speakers: Monica Perez, Gail Forrest, Chen Yang, Anuj Jayaraman</p>
12:00 - 13:45	Lunch											
13:45 - 15:15	<p>W25 Applications of Wearable Technology in Rehabilitation: Measuring and Restoring Function in Our Patients</p> <p>Organizer: Megan K. O'Brien Speakers: Megan K. O'Brien, Anuj Jayaraman, Jose Lopez Virtual Speakers: Yue Wen</p>	<p>W26 Restoring Hope, Rebuilding Lives: Transformation of Clinical Practice with Rehabilitation Technology</p> <p>Organizer: Seng Kwee Wee Speakers: Karen Chai Sui Gwek, Seng Kwee Wee, Loh Yong Joo, Ong Poo Lee, Christopher Kiah Wee Keong, Phua Min Wee, Ng Cheew Yin, Tegan Plunkett</p>	<p>W27 Exploring the Scientific Principles and Technologies of Neurorehabilitation</p> <p>Organizer: Shimoda Shingo Speakers: Fady Alnajjar, An Di, Shingo Shimoda, Juan Moreno, Yasuhisa Hirata, Yang Ningjia Virtual Speakers: TBA</p>	<p>W28 How Advancing Technologies Complement Clinical Practice in Specialist Residential Rehabilitation: An Exploration of Practical Application and Protocol Development</p> <p>Organizer: Lucy Wright Speakers: Lucy Wright, Lucy Greenmonth, Kostas Fafalis, Colette Shaw, Tonia Chan</p>	<p>W29 Brain monitoring and modulation for advancing of physical-abilities in therapy and caregiving</p> <p>Organizer: Chuanmin M. Niu Speakers: Qing Xu, Chuanmin Niu, Honghai Liu, Wayne Feng, Chaoshu Zhu, Ping Zhou</p>	<p>W30 The Use of Whole-Body Vibration in Clinical Practice: Side Alternating Vibration Platform</p> <p>Organizer: Angel Lim Speakers: Goh Shi Min, Bjorn Bushing, Chris Baur Virtual Speakers: TBA</p>	<p>W31 Physical Care From the Metaverse Powered By Haptics</p> <p>Organizer: David Charlot Sara Myers Speakers: David Charlot, Sara Myers, Stephanie Carey Virtual Speakers: TBA</p>	<p>W32 Instrumented Dummy Limbs for the Assessment of Safety and Performance of Wearable Robots</p> <p>Organizer: David Rodriguez-Cianca Speakers: Diego Torricelli, Gerdenke Prange, Jan Veneman, Gwak Kwan-Woong, Bernard Beer, Eriko Yoshida</p>	<p>W33 Re-Envisioning Clinical Research Evidence for Rehabilitation Technology to Support Integration to Practice</p> <p>Organizer: Rosalie H Wang Speakers: Rosalie H Wang, Nina Hovanec, Aaron Yurkewich, José López Sánchez, Alison Watt, Heather Colquhoun</p>	<p>W34 Bridging clinics, research, and industry: how to design user-centered rehabilitation technologies?</p> <p>Organizer: Andrea Marinelli, Marco Puffi, Anna Buchner, Giulia Bodo Speakers: Lorenzo De Micheli, Matteo Laffranco, Emanuele Gruppioni, Franco Molteni, Strahinja Dosen, Claudio Castellini, Zhi Kang Tai, Jose Gonzales</p>	<p>W35 Mobile Health for Rehabilitation in Low- and Middle-Incomes Countries</p> <p>Organizer: Bruno Bonnehire Speakers: Bruno Bonnehire, Ak Rintala, Suzanna Guidetti, Judith Deutsch Virtual Speaker: Cesar Marquez-Chin</p>	<p>W36 Take home messages for successful implementation of FES therapy in your clinic: What to do and not to do</p> <p>Organizer: Matija Milosevic Speakers: Milos Popovic, Naaz Desai, Matija Milosevic, Kei Masani Virtual Speaker: Cesar Marquez-Chin</p>
15:15 - 16:00	Coffee Break											
16:00 - 17:30	<p>W37 Communication and Swallowing are Central to Life! An Interactive Exploration of Neurotechnology for Speech and Language Therapy Throughout a Stroke Patient's Recovery - Supporting Interdisciplinary Collaboration</p> <p>Organizer: Chrissy Bibby Speakers: Chrissy Bibby, Alice Wilks, Laura Marriott, Alison Watt</p>	<p>W38 Automated Gait Pattern Facilitation with Advanced Closed-Loop Control Algorithm: Opportunities and Challenges in Clinical Practice</p> <p>Organizer: Juan Pablo Gonzalez Appelgren Speakers: Matt Gillhorn, Juan Pablo Gonzalez-Appelgren, Kelly Breen, Matias Hossainson</p>	<p>W39 Bringing Technology-Assisted Upper Limb Neurorehabilitation From Clinic to Home: An Interdisciplinary Perspective</p> <p>Organizer: Simone Käger, Hsiao-Ju Cheng, Oliver Lamberty Speakers: Oliver Lamberty, Tobias Kowatsch, Asif Hussain, Eleeine Burdet, TBA</p>	<p>W40 Is technology ready for everyday clinical assessments?</p> <p>Organizer: David Rodriguez-Cianca Speakers: David Rodriguez-Cianca, Clara Sanz-Moreno, Maria Isabel Sinovas-Alonso, Emilio Trigili</p>	<p>W41 Experience the Innovation in the Continuum of Upper Limb Rehabilitation</p> <p>Organizer: Veronica Garcia Speakers: Claudio Pizzolatto, Veronica Garcia-Marti, Matthias Naf</p>	<p>W42 Holistic development and implementation of rehabilitation technologies</p> <p>Organizer: Eveline Graf Speakers: Martina Spies, Eveline Graf</p>	<p>W43 Latest innovative treatment methods to improve hand function in Parkinson's disease</p> <p>Organizer: Tim Vanbellingen Speakers: Tim Vanbellingen, Rolf Aderberger Virtual Speakers: Erwin van Wegen, Tobias Nel, Pastore-Wapp</p>	<p>W44 Intuitive Bidirectional Control of Bionic Limbs: Bringing across Academia, Clinics, and Industry</p> <p>Organizers: Jose Eduardo Gonzalez, Strahinja Dosen, Massimo Sartori, Herman van der Kooy Speakers: Hugh Herr, Helen Huang, Lorenzo De Micheli, Antonio Bicchi, Levi Hargrove, Johan Rietman Virtual Speakers: TBA</p>	<p>W45 Hybrid FES robotics: from design challenges to clinical perspectives</p> <p>Organizer: Emilia Ambrosini Speakers: Lorenzo Masia, Ferrante Simona, Alessandra Pedrocchi, Marcia O'Malley Virtual Speaker: Franco Molteni</p>	<p>W46 Emerging Technologies: Non-Invasive Spinal Cord Stimulation (niSCS) Combined with Functional Electrical Stimulation (FES)</p> <p>Organizer: Gad Alon Speakers: Tamara Street, Anand D Pondyiah</p>		



Development and Implementation of Technology
Education in the field



FES, Brain Stimulation and Neurophysiology
Industry



Neurorehabilitation
Telerhabilitation



Virtual Rehabilitation
Clinical Application of Technology