



EUROBENCH SUMMIT

21-22 June 2022 | Madrid, Spain

AGENDA

DAY 1 – TUESDAY 21 JUNE

08.30 – 09:00 Registration

09.00 – 10.45 Eurobench Summit Opening

09.00 – 09.15 Welcome

09.15 – 09.45 Eurobench Overview. Diego Torricelli, Neural Rehabilitation Group & Eurobench Project Coordinator. Cajal Institute, CSIC

09.45 – 10.10 Center for Clinical Neuroscience, a new insight in neurorehabilitation. Jesús Tornero, Director of CCN – Hospital Los Madroños

10.10 – 10.30 Future European funding opportunities in the robotics sector. Enrique Pelayo. Senior Project Officer at CDTI

10.30 – 10.45 Institutional Opening.

Dra. Natacha León, Directora Unidad Avanzada de Neurorehabilitación Hospital Los Madroños

Dr. Antonio Alemany, Director Médico Hospital Los Madroños

Excmo. Sr. Don Enrique Ruiz Escudero, Consejero de Sanidad de la Comunidad de Madrid

10.45 – 11.00 Coffee Break

11.00 – 13.00 Talks - WEARABLE ROBOTS SESSION

11:00 – 11:15 BenchBalance. A System for Benchmarking Balance Capabilities of Wearable Robots and Their Users. Cristina Bayón

11:15 – 11:30 TestEd. Moving in Narrow Spaces. Marcos Villar, Victor Alonso, Gema Antequera.

11:30 – 11:45 BULLET. Measuring upper limbs involvement in assisted gait. Matteo Lancini

11:45 – 12:00 EXPERIENCE. Benchmarking Exoskeleton-Assisted Gait Based on User Experience. N. L. Tagliamonte

12:00 – 12:15 B.E.A.T. Testbed for Assessing the Effects of Lower Limb Exoskeletons on Human Balance. Ilaria Miletì

12.15 – 12:30 STEPbySTEP. Design and Validation of a Stairs-Based Testbed for the Benchmark of Exoskeletons Devices. Loris Roveda

12.30 – 12.45 UdBenchmark. benchmarking stability of walking on level ground and inclines. S.M Bruijn

12:45 – 13:00 DYSTURBANCE - Benchmarking Resilience. Manolo Garabini

13.00 – 15.00 Lunch

15.00 – 16.00 Day 1 Plenary Talk. Katja Mombaur. Professor at University of Waterloo, Canada. *Expert on human-robot interaction, wearable and humanoid robots, and human motion analysis.*

16.00 – 17.00 Poster Session & Coffee Break

17.00 – 17.30 Wandercraft Demonstration

17.30 – 19:30 Projects Demonstrations

19.30 – 19.45 Group Photo

20.00 – Gala Dinner

DAY 2 – WEDNESDAY 22 JUNE

9.00 – 10.30 Talks - HUMANOID SESSION

09.00 – 09.15 COMTEST - Benchmarking humanoid posture control and balance - results and perspectives. Vittorio Lippi

09.15 – 09.30 BENCH. Towards an objective evaluation of the sit-to-stand motion. Leonardo Gizzi

09.30 – 09.45 HumaBelief. Belief Space Planning for Robust Humanoid Locomotion. F. Bonsignorio and E. Zereik

09.45 – 10.00 HumaBiMan. BiManual Manipulation by DL and Fractional Control on TEO Humanoid Robot, S. Martinez de la Casa and F. Bonsignorio



10.00 – 10.30 MADROB + BEAST - Benchmarking Humanoids in Everyday Tasks. Matteo Matteucci

10.30 – 11.00 Coffee Break

11.00 – 12.30 Talks - WEARABLE ROBOTS SESSION

11.00 – 11.20 ROPELLING. Towards optimizing robot regulation through robot testing facilities. Eduard Fosch-Villaronga

11.20 – 11.40 INTENTION. Effects on human-robot interaction of combined EMG-Onset control algorithm with traditional admittance control. Antonio del Ama.

11.40 – 12.00 PELLEXER. Performance Evaluation of Exoskeletons for Emergency Response Forces. Jonas Dülberg

12.00 – 12.30 KO and KOD. Coupling robotic platform and robotic orthosis for enhancing recovery during gait and standing. Petrarca M

12.30 – 13.00 Institutional Closing.

Dr. Antonio Alemany, Director Médico Hospital Los Madroños

Dr. Jesús Tornero, Dir. I+D+I Hospital los Madroños y Dir. Center for Clinical Neuroscience HLM

Ilma. Sra. Doña Ana Isabel Cremades Rodríguez, Directora General de Investigación e Innovación Tecnológica de la Comunidad de Madrid.

13.00 – 15.00 Lunch

15.00 – 16.00 Day 2 Plenary Talk. Nicola Vitiello. Associate Professor, Scuola Superiore Sant'Anna, Pisa, Italy. *He leads the Wearable Robotics Laboratory at the Scuola Superiore Santa'Anna.*

16.00 – 16.30 Closure & Poster Awards

16.30 – 18.00 Projects Demonstrations & Coffee Break

THE ORGANISERS

HOSPITAL
Los Madroños

INTEGRA

CSIC



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