

ALBERTO RANAVOLO





EVENTO BRIC - INAIL

LABORIUS

AI-POWERED COLLABORATIVE ROBOTS FOR GAIT AND BALANCE ENHANCEMENT

PROGRAM

09.00

Participant registration

Opening of the event

SCIENTIFIC COMMITTEE
MARIANO SERRAO
ALBERTO RANAVOLO

Chairman: Mariano Serrao, Alberto Ranavolo

- 09.30 Designing and developing collaborative robots for gait and balance assistance: human-robot interaction, from MOCA to Laborius to WANDER and beyond Arash Ajoudani, Younggeoul Cho
- 09.50 Human-human interaction during walking Yuri Ivanenko, Francesco Lacquaniti
- **10.10 Enhancement of vestibular motion perception for balance rehabilitation** Myrka Zago, Francesco Lacquaniti
- 10.30 Extrapolated center of mass as metric to assess dynamic balance during walking

 Andrea Fortuna
- 10.50 Gait and balance analysis through wearable devices: kinematic biomarkers and metrics
 Ilg Wienfried, Stefano Filippo Castiglia
- 11.10 Coffee break

Chairman: Cristiano De Marchis

- 12.00 Computer Vision Approach for motion analysis Niki Martinel, Irene Gennarelli
- 12.40 Generative AI approach for motion analysis

 Dante Trabassi
- 13.20 Indexes and AI algorithms for motor performance assessment in job integration/reintegration programs designed using collaborative robots Tiwana Varrecchia, Giorgia Chini

