Learn directly from leading international experts in biomedical engineering, medicine, and digital health!

PARTICIPATION FEES*

€350: in-person attendance
€380: in-person attendance with ECM credits (Continuing Medical Education)
€200: online attendance
*The participation fee includes the social dinner.

Contact Us

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Who is it for

- Bachelor's and Master's students;
- PhD students and postdoctoral researchers;
- biomedical engineers;
- clinicians, physiotherapists, athletic trainers;
- professionals interested in wearable technologies and their applications in research and clinical practice.

8-10 June 2026

Università Campus Bio-Medico di Roma.
Via Álvaro del Portillo, 21 Roma

With the patronage of

SIMFER
SOCIETÀ ITALIANA DI MEDICINA FISICA E RIABILITATIVA
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International Summer School on Wearable Sensors

Three days of intensive sessions featuring **lectures**, **hands-on workshops**, and practical activities focused on **wearable sensor** technologies, including signal processing and data analysis methods, and AI-based approaches, along with their **applications** in **clinical rehabilitation, sports medicine, and onco-hematology care**.

Scan the QR code for the full program!

SCAN ME

ORGANIZERS

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Federica **Bressi**
Ombretta **Annibali**
Valeria **Tomarchio**
Bruno **Vincenzi**
Tea **Zeppola**

Interested in supporting this initiative? Contact us to explore the available sponsorship opportunities.

Skills You Will Gain

- Knowledge of **wearable technologies** and digital health solutions
- Competence in **signal processing**, data analysis, and **AI methods**
- Understanding of clinical and biomedical **applications across medical domains**
- Experience in translational and **interdisciplinary approaches**
- Expansion of an **international scientific network**

Program Structure

Each day will begin with a **morning plenary session**, offering an overview of the key technologies, data-analysis methods, and algorithms used in the development of wearable sensors, along with their applications across different areas of medicine.
In the afternoon, participants will join one of the **three thematic tracks**, each featuring focused lectures:

Track 1

Hands-on sessions: technologies and data analysis for wearable sensors

Track 2

Advances in clinical rehabilitation and sports medicine using wearable sensors

Track 3

Onco-hematology care through wearable sensors

Day 1
08/06/2026

Morning session

9:00-10:00 *"Exploiting sustainable printed electrochemical biosensors to boost wearable applications",* Stefano Cinti, University of Naples Federico II
10:00-11:00 *"Biomechanical analysis through wearable sensors for neuromuscular research",* Eduardo Palermo, Sapienza University of Rome
11:00-11:30 Coffee break
11:30-12:30 *"Soft wearable robotic suits to augment human locomotion for wellness and rehabilitation"*, Enrica Tricomi, Technische Universität München
12:30-13:30 *"Conformable bioelectronics for brain-body axis",* Claudia Cea, Yale University
13:30-14:30 Lunch break

Track 1

14:30-17:00 Hands-on: Motion tracking by wearables based on magneto inertial measurements, Alessia Noccaro, Newcastle University
17:00-18:30 Meet & Greet with Welcome Reception

Track 2

14:30-15:20 *"Wearable sensors in orthopaedic rehabilitation: where we are and where we are going"*, Arianna Carnevale, Fondazione Policlinico Campus Bio-Medico di Roma
15:20-16:10 *"Wearable sensors for adaptive orthopaedic robot-aided rehabilitation",* Christian Tamantini, CNR
16:10-17:00 *"From wearable sensors data to digital twins: AI-driven personalized rehabilitation in orthopaedic care"*, Giovanni Pioggia, CNR
17:00-18:30 Meet & Greet with Welcome Reception

Track 3

14:30-15:00 *"An overview of bispecific strategies in hemathology"*, Ombretta Annibali, Fondazione Policlinico Campus Bio-Medico di Roma
15:00-15:30 *"The role of CAR-T therapy in hematologic diseases"*, Roberto Mina, Winship Cancer Institute Emory University
15:30-16:00 *"Navigating emerging toxicities in onco-hematology",* Valeria Tomarchio, Fondazione Policlinico Campus Bio-Medico di Roma
16:00-16:30 *"Lymph nodes: an overview",* Arianna Di Napoli, Sapienza University of Rome and Sant'Andrea University Hospital
16:30-17:00 *"Wearable technologies for lymph node palpation",* Emiliano Schena, Università Campus Bio-Medico di Roma
17:00-18:30 Meet & Greet with Welcome Reception

Day 2
09/06/2026

Morning session

9:00–10:00 *"Wearable technologies for cardiorespiratory assessment: from sensors to insights"*, Daniela Lo Presti & Carlo Massaroni, Università Campus Bio-Medico di Roma
10:00–11:00 *"To what extent can we rely on wearables? the impact of sensor placement and signal processing on data reliability"*, Gloria Cosoli, eCampus University
11:00–11:30 Coffee break
11:30–12:30 *"AI-driven health monitoring: concepts and applications in wearable technologies"*, Valerio Guarrasi, Università Campus Bio-Medico di Roma
12:30–13:30 *"Designing XR exergames for cognitive and physical training: wearable-driven interaction, engagement, and efficacy"*, Manuela Chessa, University of Genova
13:30–14:30 Lunch break

Track 1

14:30–17:00 *Hands-on: Estimating Functional Brain-Heart Interplay from EEG and HRV series,* Vincenzo Catrambone, University of Pisa
17:00–17:30 Coffee Break – Poster Session
17:30–18:30 Project

Track 2

14:30–14:45 *"Wearables in orthopedic rehabilitation"*, Andrea Bernetti, Sapienza University of Rome
14:45–15:00 *"Wearables for supervised and unsupervised motor monitoring"*, Maria Luisa Gandolfi, University of Verona
15:00–15:15 *"Wearables for supervised and unsupervised motor rehabilitation"*, Giovanni Morone, IRCCS Fondazione Santa Lucia
15:15–15:30 *"Wearables for rehabilitation in individuals with parkinson diseases"*, Marianna Capecci, Università Politecnica Delle Marche
15:30–15:45 *"Wearables for rehabilitation in individuals with multiple sclerosis"*, Sofia Straudi, Arcispedale Sant'Anna
15:45–16:00 *"Wearables for upper limb amputee assessment and rehabilitation"*, Sandra Miccinilli, FPUCBM
16:00–16:10 *"Wearables for assessment and rehabilitation of balance disorders"*, Federica Bressi, FPUCBM
16:10–16:20 *"Clinical application and use of wearable devices for upper limb assessment and rehabilitation"*, Marco Bravi, FPUCBM
16:20–16:30 *"Wearable devices for upper-limb sport rehabilitation"*, Emanuele Umbro, Nexus Fisioterapia, Roma
16:30–16:45 *"Acceleration derived indexes for gait quality assessment"*, Filippo Castiglia, Link Campus University
16:45–17:00 *"Clinical application and use of wearable devices for lower limb assessment and rehabilitation"*, Fabio Santacaterina, FPUCBM
17:00–17:30 Coffee Break – Poster Session

Track 3

14:30–15:10 *"Interstitial lung disease caused by antibody–drug conjugates"*, Francesco Pantano, Fondazione Policlinico Campus Bio-Medico di Roma
15:10–15:50 *"Advancing clinical research: the critical role of wearable devices in intensive patient monitoring"*, Alessio Cortellini, Fondazione Policlinico Campus Bio-Medico di Roma
15:50–16:20 *"Remote patient monitoring and early detection of interstitial lung disease, hematological disorders, and fever"*, Andrea Napotilano, the Royal Marsden NHS Foundation trust and The institute of Cancer Research, London UK
16:20–17:00 *"Integrating patient-reported outcome measures (proms) with wearable technologies"*, Massimo Di Maio, University of Turin
17:00–17:30 Coffee Break – Poster Session

Day 3
10/06/2026

Morning session

9:00-10:00 *"Industrial AI meets wearables: from machine intelligence to human performance"*, Luigi Raiano, Siemens
10:00-11:00 "Project
11:00-11:30 Coffee break
11:30-13:00 Projects Presentation and Closing Remarks

Visit the website for registration!

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