

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



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SOCIETÀ ITALIANA DI MEDICINA  
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UNIVERSITÀ  
CAMPUS BIO-MEDICO DI ROMA

# 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.**

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Scan the QR  
code for the full  
program!





## ORGANIZERS

Emiliano **Schena**  
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Daniela **Lo Presti**  
Chiara **Romano**  
Marco **Bravi**  
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

**9:00–9:15** Opening Remarks by **Ombretta Annibali**, **Biagio Zampogna**, Fondazione Policlinico Campus Bio-Medico; **Daniela Lo Presti**, and **Chiara Romano**, Università Campus Bio-Medico di Roma

**9:15–10:15** “Exploiting sustainable printed electrochemical biosensors to boost wearable applications”, **Stefano Cinti**, University of Naples Federico II

**10:15–11:15** “Biomechanical analysis through wearable sensors for neuromuscular research”, **Eduardo Palermo**, Sapienza University of Rome

**11:15–11:40** Coffee break

**11:40–12:40** “Soft wearable robotic suits to augment human locomotion for wellness and rehabilitation”, **Enrica Tricomi**, Technische Universität München

**12:40–13:40** “Conformable bioelectronics for brain-body axis”, **Claudia Cea**, Yale University

**13:40–14:30** Lunch break

## Track 1

**14:30–17:00** Hands-on: Motion tracking by wearables based on magneto inertial measurements, **Alessia Nocco**, Newcastle University. With support of Carlo Massaroni, Università Campus Bio-Medico di Roma.

**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 hematology”, **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** "AI and Digital Health: Transforming the Assessment and Management of Motor Impairments", **Paolo Bonato**, Harvard Medical School

**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** and **Arianna Francesconi**, 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. With support of Daniela Lo Presti, Università Campus Bio-Medico di Roma.

**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", **Silverio Tomao**, IRCCS San Raffaele

**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", **Grazia Armento**, Fondazione Policlinico Campus Bio-Medico

**17:00-17:30** Coffee Break – Poster Session

**Dinner will take place at 8:00 PM**

**at "Max a Trigatoria"**

**Via dei Redattori 51, Trigatoria, Rome**

**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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