

TELMED 2025 program

Monday March 17th

8:00am - 8:30am — Registration

8:30am— Introduction to TELMED Workshop (*Piero Castoldi, Scuola Superiore Sant'Anna, Italy*)

8:30am - 10:00am — **Session 1 Health monitoring for Telemedicine Applications** (*Chair Sreenivasan Ramasamy Ramamurthy, Bowie State University, USA*)

Comparative Analysis of Acted-Out and Real Patient Gait Parameters for Sensing Applications, Alireza Parsay, Mert Torun, Philip R. Delio and Yasamin Mostofi

Single-channel Wearable EEG for Monitoring Mental Workload for Telerehabilitation Applications, Irene Rechichi, Gianluca Amprimo, Claudia Ferraris and Gabriella Olmo

Multimodal Stress Monitoring Using Deep Learning for Telemedicine and Telehealth Applications, Bushra Jalil, Hamid Mashreghi and Luca Valcarenghi

10:00am - 10:30am — Coffee break

10:30am - 12:00am — **Session 2 Advanced Technologies for Health monitoring** (*Chair Piero Castoldi*)

Keynote Talk

The Pervasive Sensing, Control, and Communications of the Internet of Bio-Nano Things, Prof. Massimiliano Pierobon, University of Nebraska-Lincoln (USA)

Neuro-symbolic AI for Supporting Chronic Disease Diagnosis and Monitoring, Matteo Magnini, Giovanni Ciatto, Ahmet Emre Kuru, Christel Sirocchi and Sara Montagna

12:00pm - 1:30pm — Lunch break

1:30pm - 3:00pm — **Session 3 e-Health applications Challenges** (*Chair Sara Montagna, University of Urbino, Italy*)

Techno-Economic Analysis of 5G and AI Assisted Emergency Medical Care Systems: the Case of 5G-SOSIA for Tuscany, Hamid Mashreghi, Bushra Jalil, Vincenzo Lionetti, Alessandro Pacini and Luca Valcarenghi

Personal Data Protection in Smart Home Activity Monitoring for Digital Health: A Case Study, Claudio Bettini, Azin Moradbeikie and Gabriele Civitarese

Usability Assessment in Parkinson's Disease: the Case Study of the FarmExergame, Giulia Masi, Sofia Tonti, Claudia Ferraris, Gabriella Olmo, Lorenzo Priano and Gianluca Amprimo

3:00pm – 3:30pm — Coffee Break

3:30pm — 4:30pm **Panel discussion e-Health and Telemedicine challenges and future perspectives** (*Chair Piero Castoldi*)

4:30pm – 5:00pm **Workshop conclusions** (*Piero Castoldi*)