



# 1<sup>st</sup> STUDENT WORKSHOP ON MEDICAL ACQUISITION SYSTEMS



UNIVERSITÀ POLITECNICA DELLE MARCHE



BR3IN

## TOWARD THE HARDWARE FOR IMPLEMENTING AN ELECTROCARDIOGRAPH



**JUNE 3RD-4TH, 2024**

**ORGANIZERS:** Dr.ssa Agnese Sbröllini  
Prof.ssa Laura Burattini  
Prof. Ennio Gambi  
Dr.ssa Noemi Giordano  
MHD Jafar Mortada

**AULA POLIFUNZIONALE FACOLTÀ DI INGEGNERIA  
UNIVERSITÀ POLITECNICA DELLE MARCHE**

**Are you a Master Degree student of UNIVPM? JOIN US!**

This workshop aims to explore the design, development, and implementation of medical instrumentation, specifically focused on ECG processing. Best projects and winners of the “Cognitive Computation in Physiology and Medicine” Hackathons will be awarded during the closing ceremony. For subscription open the QR-code or contact Dr.ssa Agnese Sbröllini, a.sbröllini@staff.univpm.it.



### MONDAY JUNE 3RD 2024

Sponsored by **IEEE** youngprofessionals **ITALY SECTION**

- 10.00-10.30: **Welcome** – Dr.ssa Agnese Sbröllini
- 10.30-11.30: **Digital Electrocardiography: from Physiology to Signal Processing** - Prof.ssa Laura Burattini
- 11.30-12.30: **Hardware Implementation of ECG** - Prof. Ennio Gambi
- 12.30-13.00: **Introduction to Hands-on-Hardware** Dr.ssa Agnese Sbröllini
- 14.30-18.30: **Hands-on-Hardware: How to acquire and filter an ECG?** - MHD Jafar Mortada with G. Bruschi, M. Scattolini, A. Nocera, R. Mobarak, L. Del Giudice, M. Raimondi, E. Iammarino, L. Goffi, I. Bolognini

### TUESDAY JUNE 4TH 2024

- 9.00-10.00: **Let's Have Breakfast Together!!!**
- 10.00-11.00: **Hands-on-Hardware: Project Presentation by Students** – Award Committee: L. Burattini, E. Gambi, F. Verdini, M. Morettini, A. Mengarelli, A. Tigrini, I. Marcantoni, A. Piersanti
- 11.00-12.00: **Beyond the prototype: from the laboratory to the clinical practice** Dr.ssa Noemi Giordano
- 12.00-13.00: **Award Ceremony and Closing**



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