

PhysioECG: toward the next-generation digital electrocardiography

Supervisor: Prof. Laura Burattini

Department of Information Engineering – https://www.dii.univpm.it



Supervisor: Prof. Laura Burattini **Research Group Description**







Full Professor

RTD-B

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- **National** collaboration
- International collaboration

Most recent publications:

- 10.1088/1361-6579/ace241
- 10.1093/europace/euac159
- 10.1016/j.bspc.2022.104185
- 10.1016/j.bspc.2021.103210
- 10.1016/j.jelectrocard.2021.10.005





The Department of Information Engineering

Director: Prof. Franco Chiaraluce

The Department of Information Engineering (DII) was established in 2011 following the merge of the previous DIBET (Department of Biomedical, Electronics and Telecommunication engineering) and DIIGA (Department of Computer, Management and Automation engineering).

The Department is a self-managing organizational branch of the university which is dedicated to scientific research, teaching, and contributing to the so called Third Mission of the Higher Education Institution through the dissemination of scientific research findings amongst the community.

Its main aims are to plan, organize and regularly assess the quality of the research activities carried out in the scientific sectors and disciplines under its jurisdiction; to plan, organize and manage bachelor and master courses in Information Engineering and, last but not least, to provide cultural and educational activities and contribute to training and guidance issues according to the students needs.



Industrial and Information Systems (based in

Pesaro).





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Project Idea: PhysioECG: toward the next-generation digital electrocardiography

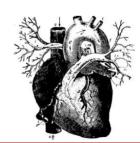
This project aims at exploiting explainable artificial intelligence (XAI) and innovative data analysis techniques to achieve new insights on the electrical physiology and

pathophysiology of the heart.



WHY? HOW? WHERE?





Explainable Artificial Intelligence



Electrical Physiology and Pathophysiology