



# PDP 2024

32nd Euromicro International Conference on  
Parallel, Distributed and Network-based Processing

second workshop on

## Scalable Algorithms, Libraries and Tools for Computational Science and Machine Learning on New Heterogeneous HPC Systems

Cloud Competency Centre at the National College of Ireland

20-22 March 2024 – Dublin, Ireland

[www.labdma.unina.it/pdp2024/saltcsmlnhp2024.html](http://www.labdma.unina.it/pdp2024/saltcsmlnhp2024.html)

A dissemination event for the EU funded PRIN projects  
Gandalf - Gan Approaches for Non-iiD Aiding Learning in Federations  
Strudel - A sustainable and trusted Transfer Learning Platform for Edge Intelligence

Heterogeneity is emerging as one of the main characteristics of today's and future HPC environments where different nodes organizations, memory hierarchies, and kinds of exotic accelerators are increasingly present. In this context, for Computational Science and Machine Learning, it is essential to leverage efficient and highly scalable libraries and tools capable of exploiting such modern heterogeneous computers. This workshop aims to provide a forum for researchers and practitioners to discuss recent advances in parallel methods and algorithms and their implementations on current and future heterogeneous HPC architectures.

### Organizers:

Salvatore Cuomo (Univ. of Naples Federico II, Italy)  
Giuliano Laccetti (Univ. of Naples Federico II, Italy)  
Marco Lapegna (Univ. on Naples Federico II, Italy)  
Francesco Piccialli (Univ. of Naples Federico II, Italy)

### Speakers:

Gennaro Mellone (Univ. of Naples Parthenope, Italy)  
Martina Savoia (Univ. of Naples Federico II, Italy)  
Daniela Annunziata (Univ. of Naples Federico II, Italy)  
Dimosthenis Iliadis Apostolidis (Aalborg University, Denmark)  
Karol Marszałek (Silesian University of Technology, Poland)  
Valeria Mele (University of Naples Federico II, Italy)