

Aula II

10:45-12:15**SS14: Networks and Graph Neural Networks for Bridging Bioinformatics and Medicine****Chair:** Annamaria Defilippo**10:45-11:00****DirHopGNN: an efficient approach to k-hop GNNs**

Francesco Madeddu · Mario Santoro

11:00-11:15**Assessing Community Stability in Weighted Single-Cell Networks**

Valeria Policastro · Domenico Sgambato · Dario Righelli · Vincenzo della Gatta · Luisa Cutillo · Annamaria Carissimo

11:15-11:30**Katz Kernel Based Stratification of Breast Cancer Patients**

Francesco Cellitti · Lorenzo Di Rocco · Livia Perfetto · Veronica Lombardi · Umberto Ferraro Petrillo

11:30-11:45**A Multilayer Graph Diffusion Model for Spatial Transcriptomics Reveals Cell-Cell Propagation Dynamics.**

Caterina Francesca Perri · Annamaria Defilippo · Federico Manuel Giorgi · Pietro Hiram Guzzi · Pierangelo Veltri

11:45-12:00**Integrating Genomic Annotations and Traits Dependencies for single-nucleotide polymorphisms Prioritization with Causally Reliable Concept Bottleneck Models**

Francesco De Santis · Daniele Malpetti · Francesco Gualdi · Francesca Mangili

12:00-12:15**Integrating Implicit and Explicit Relational Biases through Graph-Based Multiple Instance Learning: A Case Study in Skin Lesion Diagnosis**

Rafał Buler · Jakub Buler · Maciej Bobowicz · Michał Grochowski