

Aula Gini

12:30-13:30	Lunch
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13:30-15:00	SS16: Quantum Artificial Intelligence for Bioinformatics and Biostatistics: Theory, Algorithms, and Applications Chair: Silvia Cascianelli
13:30-13:45	A Block Decomposed QUBO Workflow for Chromosome-Y Phylogeny Reconstruction Giuliana Siddi Moreau · Riccardo Berutti · Manuela Profir · Lorenzo Pisani · Maria Laura Clemente · Lidia Leoni
13:45-14:00	Hybrid Quantum-Classical Convolutional Neural Network for Genomic Sequence Classification Giovanni Acampora · Angela Chiatto · Roberto Schiattarella
14:00-14:15	Temporal quantum feature maps for longitudinal biomedical data Maria Demidik · Filippo Utro · Alexey Galda · Daniel Blankenberg · Karl Jansen · Laxmi Parida
14:15-14:30	Quantum Kernel Estimation for the Discovery of Early Lung Cancer Detection Hamed Javidi · Alex Zajichek · Hakan Doga · Laxmi Parida · Filippo Utro · Peter Mazzone
14:30-14:45	Quantum-Assisted Clinical Risk Factor Selection for Diabetes Readmission Prediction Floriano Caprio · Matteo Tortora · Paolo Soda · Sunil Gentyala
14:45-15:00	A quantum generative model for in silico clinical trials using scarce training datasets Olatz Sanz · Reza Dastbasteh · Mikel Hernaez · Roberto Sanchez-Navarro · Maria Diez-Campelo · Felipe Prosper · Ana Alfonso-Pierola · Sara Capponi · Pedro Crespo Bofill · Josu Etxezarreta Martinez
15:00-15:20	Coffee Break
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15:20-17:05	SS12: Machine learning for structured data in clinical informatics and medical biology Chair: Davide Chicco
15:20-15:35	A comparative knowledge- and data-driven machine learning analysis for H-CPAP failure prediction Keying Qiao · Marco Masseroli · Luca Novelli · Matteo Bertoli · Roberto Cosentini · Eugenia Belotti · Isabelle Piazza · Chiara Baroni · Matteo Stenico · Fabiano Di Marco · Michele Capelli · Silvia Cascianelli
15:35-15:50	Toward Personalized Diabetic Retinopathy Screening: Deep Learning Fundus Image Analysis and Clinical Risk Factors Flavio Ragni · Paolo Bresolin · Stefano Bovo · Madalina Cocu · Sandro Inchiostro · Federica Romanelli · Giulia Malfatti · Monica Moroni · Giuseppe Jurman
15:50-16:05	Integration of Large Language Models and Retrieval-Augmented Generation for Clinical Decision Support in Inflammatory Bowel Disease Gabriele Rumi · Andrea Mazzei · Daniele Napolitano · Franco Scaldaferri · Giuseppe Cattaneo · Antonio Gasbarrini
16:05-16:20	Disease Classification from raw metagenomic data through Large Language Model embedding of DNA sequences Gaspar Roy · Eugeni Belda · Yann Chevaleyre · Edi Prifti · Jean-Daniel Zucker
16:20-16:35	Project-Aware Edited Nearest Neighbours for Label-Noise Filtering in SNP-Based Biogeographical Ancestry Inference Cosimo Grazzini · Stefania Morelli · Elena Pilli · Giulia Cereda · Daniele Castellana
16:35-16:50	NanoMambaNet: A Linear-Time CNN-Mamba Hybrid Architecture for Basecalling-Free Nanopore Pathogen Classification Chayanika Bhattacharjee · Kolin Paul · Niranjana Sarode
16:50-17:05	SOPHYSM: More Steps towards Digital Twins of Solid Tumours Diego Cividini · Marco Antoniotti