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PIANO NAZIONALE DI RIPRESA E RESILIENZA

GENERAL CONFERENCE

FAIR Future Artificial Intelligence Research

General Conference

23|24 SET2024

NAPOLI

Auditorium Hotel Royal Continental
Via Partenope 38

PROGRAMMA

YOUNG VIRTUAL POSTER SESSION

Per garantire una ampia partecipazione dei giovani e neo reclutati del progetto FAIR alla General Conference del progetto, che si svolge a Napoli dal 23 al 24 settembre 2024, oltre che di dare più visibilità possibile alle attività scientifiche condotte all'interno di Spoke e Transversal projects, si è deciso di ospitare nel programma della conferenza una **Young Virtual Poster Session**, aperta ai giovani ricercatori che fanno parte della comunità scientifica di FAIR, ospitata all'interno del **canale YouTube di FAIR** e sul **sito della Fondazione**.

Di seguito l'elenco in ordine alfabetico dei partecipanti alla sessione.

Simone Agostinelli (La Sapienza Università di Roma – TP4) AI-empowered Robotic Process Automation

Giuseppina Andresini, Gianluca Zaza (Università di Bari "Aldo Moro" – Spoke 6) Harnessing Explainable AI for Enhanced Image Processing

Maddalena Amendola (CNR-IIT – Spoke 1) Leveraging Topic Specificity and Social Relationships for Expert Finding in Community Question Answering Platforms

Anni Domenics Arias (Lutech – Spoke 6) Enhancing Image Classification with Quantum-Classical Hybrid Convolutional Neural Networks

Matteo Benati (La Sapienza Università di Roma – Spoke 5) Exploring regime shifts in chaos-driven neural networks

Gloria Beraldo (CNR – Spoke 10) Planning & Learning Context-Aware Interactions by TIAGo Robot in Social Environments

Cristina Berchio (Università di Bari "Aldo Moro" – Spoke 6) Exploring Visual Brain Networks and Biological Sex in Assessing Psychiatric Vulnerabilities: Insights from MEG and EEG Microstates

Giovanni Bonetta (Fondazione Bruno Kessler – Spoke 2) Vision Language Models as Policy Learners in Reinforcement Learning Environments

Maria Sofia Bucarelli (La Sapienza Università di Roma – Spoke 5) Are Crowds Always Wise at Labelling Data? Majority Vote Aggregation through a Theoretical Lens

Giuseppe Buonaiuto (CNR-ICAR – Spoke 3) Multilingual Multi-task Quantum Transfer Learning

Marco Cafiso (Università di Pisa – Spoke 8) Temporal complexity of a bio-inspired neural network

Salvatore Calcagno (Università di Catania – Spoke 10) QuantFormer: Learning to quantize for forecasting neural responses in two-photon calcium imaging

Miriana Calvano (Università di Bari "Aldo Moro" – Spoke 6) Designing and Evaluating Symbiotic AI Systems through a Multidisciplinary Framework

Maria Teresa Camerlingo (INFN – Spoke 6) FAIR Symbiotic AI: Machine Learning-based reconstruction of (multi-) charm baryons in ALICE

Simone Carnemolla (Università di Catania – Spoke 10) Back to Supervision: Boosting Word Boundary Detection through Frame Classification

Gianluca Cima (La Sapienza Università di Roma – Spoke 5/TP7) Enhancing Controlled Query Evaluation through Epistemic Dependencies

Lorenzo Colantonio (La Sapienza Università di Roma – Spoke 5) Leveraging Physics-Informed Graph Neural Networks for Enhanced Graph Coloring Problem Optimization

Giovanni Guglielmo Crudeli (Università di Napoli "Federico II" – TP1) Autonomous artificial intelligence systems and employer liability

Vincenzo Marco De Luca (Università di Trento – Spoke 2) xAI-Drop: Don't Use What You Cannot Explain

Ciro Clemente De Falco (Università di Napoli "Federico II" – Spoke 3) Pratiche di resistenza algoritmica: il caso degli attivisti politici napoletani

Graziella De Martino (Università di Bari "Aldo Moro" – Spoke 6/TP7) Multi-View Overlapping Clustering for Sustainable Legal Management

Vincenzo Dentamaro (Università di Bari "Aldo Moro" – Spoke 6) An interpretable Adaptive Multiscale Attention Deep Neural Network for tabular data

Sebastiano Dissegna (Università di Trento – Spoke 2) Realizability check for Pure Past Linear Temporal Logic on Finite Traces

Abeer Dyoub (Università di Bari "Aldo Moro" – Spoke 6/ TP1) Towards Ethical Risk Assessment with Fuzzy Rules in Symbiotic AI

Maria Giovanna Elmo (Università del Salento – TP1) Collective bargaining, health and safety and AI system in work environments

Georgia Fargetta (Università di Catania – Spoke 10) Evaluation of CNNs for Wildcats Classification in Real World Scenario

Andrea Galassi (Alma Mater Studiorum Università di Bologna – Spoke 8) Promoting Fairness and Diversity in Speech Datasets for Mental Health and Neurological Disorders Research

Federico Andrea Galatolo (Università di Pisa – Spoke 1) Novel Architectural Paradigms for Conversational Agents

Antonio Galli (Università di Napoli "Federico II" – Spoke 3) Robustness and Verification Techniques with AI model for Autonomous Vehicles

Kyriakos Kristofer Georgiou (Università di Napoli "Federico II" – Spoke 3) Fredholm Neural Networks

Vito Giordano (Università di Pisa – Spoke 1) Text-Image Multimodal Model using Patents: exploring the integration of textual and visual data for Engineering Design

Michela Gravina (Università di Napoli "Federico II" – Spoke 3) Analysis of bias in brain age prediction models

Valerio Guarrasi (Università Campus Bio-Medico di Roma – Spoke 3) Enhancing the Resilience of Multimodal Learning in Healthcare

Francesco Laccone (ISTI-CNR – Spoke 8) Geometric deep learning for constrained shape optimization of triangulated architectural surfaces

Edoardo Lamon (Università di Trento – Spoke 2) Robotic Telehealth: Revolutionising Healthcare Delivery With Intelligent Collaborative Robots

Davide Mario Longo (Università della Calabria – Spoke 9) Achieving Expert-Level Data Cleaning with Large Language Models

Francesco Magliocca (Università di Napoli "Federico II" – Spoke 3) k-unmatchability in Anonymized Knowledge Graphs

Silvia Marconi (La Sapienza Università di Roma – Spoke 5) A CNN-based Approach to Space Filling Curves Classification for Stock Market Movement Prediction

Chiara Marullo (CNR-ICAR – Spoke 3) An Energy Transformer with Kolmogorov-Arnold module

Ciro Mennella (CNR-ICAR – Spoke 3) Advancing Real-Time Activity Recognition in Healthcare: Addressing Fairness and Robustness Challenges

Paolo Mignone (Università di Bari "Aldo Moro" – Spoke 6) Distributed Heterogeneous Transfer Learning

Andrea Moglia (Politecnico di Milano – Spoke 4) Multi-modal Large Language Model for the Detection of Pancreas Diseases

Seyed Mahed Mousavi (Università di Trento – Spoke 2) Should We Fine-Tune or RAG? Evaluating Different Techniques to Adapt LLMs for Dialogue

Matteo Negri (La Sapienza Università di Roma – Spoke 5) Random Features Hopfield Networks generalize retrieval to previously unseen examples

Luigi Palmieri (CNR-IIT – Spoke 1) Robustness in Decentralized Federated Learning

Caterina Pareo (Università di Pisa – Spoke 1) Algorithmic work management and discrimination: a case study

Gianfranco Peluso (Università di Napoli "Federico II" – TP1) Transparency for a Trustworthy AI: the legal framework in the workplace

Behzad Pirouz (Università della Calabria – Spoke 9) Application of Artificial Intelligence Techniques in Optimal Management of Battery Energy Storage Systems with Renewable Energies Recourses

Marco Podda (Università di Pisa – Spoke 1) Explainable Artificial Intelligence for Graph Data

Marco Polignano (Università di Bari "Aldo Moro" – Spoke 6) A study on the Identities of Large Language Models

Federica Proietto Salanitri (Università di Catania – Spoke 10) Evidential Federated Learning for Skin Lesion Image Classification

Andrea Pugnana (Università di Pisa – Spoke 1) Deep Neural Network Benchmarks for Selective Classification

Lorenzo Pulito (Università di Bari "Aldo Moro" – Spoke 6) A booster against gender-based violence: the positive impact of symbiotic AI in the protection of vulnerable victims

Francesco Ragusa (Università di Catania – Spoke 10) ENIGMA-51: Towards a Fine-Grained Understanding of Human-Object Interactions in Industrial Scenarios

Ivan Rodin (Università di Catania – Spoke 10) Action Scene Graphs for Long-Form Understanding of Egocentric Videos

Antonello Romano (Università di Pisa – Spoke 1) Synthetic Geospatial Data and Fake Geography: An empirical study on critical implications in a data-intensive society

Roberto Rondinelli (Università di Napoli "Federico II" – Spoke 3) Select the best embedding to map networks: evidences from a simulation study

Fabio Rossi (INFN – Spoke 6) Data Reduction in High Energy Physics with Artificial Intelligence supported Algorithms

Fabrizio Ruffini (Università di Pisa – Spoke 1) Federated Learning of Explainable Artificial Intelligence Models

Zafar Saeed (Università di Bari "Aldo Moro" – Spoke 6) The impact of negative sampling for link prediction tasks: A broader prospective

Samuele Sabella (CNR-IIT – Spoke 1) Assessing the Resilience of Decentralized Learning in the Face of AI-Augmented Data Manipulation

Enrico Saccon (Università di Trento – Spoke 2) Adaptive and Scalable Knowledge Management for Robotic Applications via Logic Language

Mara Sangiovanni (Università di Napoli "Federico II" – Spoke 3) Improving training by removing redundancy: a new entropy-based instance selection algorithm

Francesco Sensi (INFN - Spoke 8) Anomaly detection in structured data: application to neuroimaging

Lucia Siciliani (Università di Bari "Aldo Moro" – Spoke 6) Explaining Intimate Partner Violence with LLaMAntino

Federico Siciliano (La Sapienza Università di Roma – Spoke 5) A Theoretical Analysis of Recommendation Loss Functions under Negative Sampling

Francesco Scotto di Luzio (Università Campus Bio-Medico di Roma – Spoke 3) Sensor Fusion in Advanced Multimodal Interfaces for Human Health and Well-Being

Luigi Libero Lucio Starace (Università di Napoli "Federico II" – Spoke 3) Simulation-Based Testing for AI-Intensive ADAS Systems: Enhancing Safety and Reliability

Cristiano Tamborrino (Università di Bari "Aldo Moro" – Spoke 6) An intelligent Deep-QLP decomposition algorithm with AI applications

Luca Tenneriello (La Sapienza Università di Roma – Spoke 5) AI, adjustable autonomy, and human responsibility: the case of authorship and intellectual property

Selene Tomassini (Università di Trento – Spoke 2) From advanced diagnostic captioning to full-text report generation: Design and development of an AI-driven decision-support system in radiology

Elena Umili (La Sapienza Università di Roma – Spoke 5) DeepDFA: Automata Learning through Neural Probabilistic Relaxations

Elena Umili (La Sapienza Università di Roma – TP4) LTL is Enough: a Neuro-Symbolic Self-Groundable Reward Machine

Susanna Villani (Alma Mater Studiorum Università di Bologna – Spoke 8) Emerging Issues on Intellectual Property Rights for AI-Based Creativity

Federica Zonzini (Alma Mater Studiorum Università di Bologna – Spoke 8) Intelligent sensor systems empowered by extreme edge AI for Structural Health Monitoring applications