FAIR Spoke Vorkshop 2025 March 10th-11th, 2025 Aula Magna Polo Fibonacci

Pisa, Largo B. Pontecorvo 3

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O O O O Human-centered Al









2nd Year Workshop March 10th

8.30 - 9.00 Registration

9.00-9.30 Explainable AI for synergistic human-AI collaboration

Post-hoc explainability

Antonio Luca Alfeo, Mattia Setzu Interpretable and Individual Latent Encoding for Post-hoc Explainability Simone Piaggesi Transparent AI for healthcare

Salvatore Rinzivillo, Mario G. C. A. Cimino The Human interaction medium: Abel

Federico Galatolo, Lorenzo Cominelli

11.00 - 12.00 System 1 and System 2: Machine Learning and Reasoning

Explainable neuro-symbolic systems Andrea Pugnana, Francesco Giannini Exploiting non-standard analysis to empower deep neural networks and reinforcement learning Marco Cococcioni, Lorenzo Fiaschi Mathematical structures in learning models Marco Romito, Katerini Papagiannouli

12.00 - 13.00 Human-centered Lifelong Learning for Complex Data

XAI on graph neural networks Marco Podda Limitations of vision-language models in object detection and counting Nicola Messina Investigating the semantic abilities and limits of LLMs Martina Miliani

14.00 - 15.00 Human-Al Socio-Technical Complex Systems

Y Social: an LLM-powered Social Media Digital Twin Erica Cau What drives AI politicisation? AI debates during 2024 EP elections Silvia Keeling Still in the loop: how auditors navigate the AI paradox Federica De Santis The key role of workers' participation in the regulation of AI Caterina Pareo Alternative routing and emissions in human mobility Giuliano Cornacchia Signed networks from temporal series and social media data Jack Tacchi, Marzio Di Vece

15.00 - 17.00 The academic partners of the Spoke

17.00 - 18.00 The FAIR innovation grants

18.00 Poster session





2nd Year Workshop March 11th

9.00-10.00 Decentralized, cooperative learning Resilience of Decentralized Learning to Low-quality Data Samuele Sabella Efficient Retrieval over Learned Sparse Representations Cosimo Rulli Consistent Post-Hoc Explainability in Federated Learning Fabrizio Ruffini Dynamic Hard Pruning of Neural Networks on Resource-Cons

Dynamic Hard Pruning of Neural Networks on Resource-Constrained Devices Lorenzo Valerio

10.00 - 11.00 Co-design methodologies for trustworthiness by-design

Towards a Relational Ethics in Al. The Problem of Agency, The Search for Common Principles, the Pairing of Human and Artificial Agents Elio Grande

Analyzing Cultural Traits, Values and Ethical Postures in LLM Outputs via Personae and Ideal Types Emanuele Fulvio Perri

Neural networks in closed-loop systems: Verification using interval arithmetic and formal prover Cinzia Bernardeschi

PUFFLE: Balancing Privacy, Utility, and Fairness in Federated Learning Luca Corbucci

11.00 - 12.00 Empirical studies and pilots of human centered AI

14.00 - 15.30 The Transversal Projects of the Spoke

15.30 - 17.00 Perspectives of the young researchers of the Spoke

17.00 Poster session

PROGRAMMA

