

# FAIR Spoke Workshop 2025

February 20-21, 2025

Roma Aula Magna DIAG Sapienza Università di Roma CHEDULE



High quality Al







## SCHEDULE

## **2nd Year Workshop**

February 20, 2025

Session 1: Overview of Spoke 5 achievements Chair: Luca locchi

8.30-9.00 | **WELCOME**Luca locchi, Sapienza University of Rome

9.00-9.30 | Spoke 5 News, Summary, Results and KPIs

Luca locchi, Sapienza University of Rome

9.30-10.30 | PANEL - WP leaders

Elena Agliari, Fabio Galasso, Giorgio Grisetti, Luca locchi, Maurizio Lenzerini, Stefano Leonardi, Roberto Navigli, Fabio Patrizi, Sapienza University of Rome

10:30 | Coffee Break

Session 2: Autonomous agents and physical embodiment (WP5.1, WP5.3, TP4)
Chair: Elena Umili

11:05 - 11:20 | The Dagstuhl Diaries: In Robotic Process Automation we Trust Simone Agostinelli (WP 5.1)

11:20 - 11:35 | Integrating Logical Temporal Knowledge in Deep Reinforcement Learning and Generative Al

Elena Umili (WP 5.1)

11:35 - 11:50 | A decentralized cooperative transportation scheme for humanoid robots Nicola Scianca (WP 5.3)

11:50 - 12:10 | An Empirical Study of Grounding PPDDL Plans for Al-Driven Robots in Social Environment

Gloria Beraldo (CNR) (WP 5.3, TP4)

12.10 - 12:30 | The INTELLEXO Project: an Intelligent Exoskeleton with Adaptive Gait Planning and 3D Vision Obstacle Avoidance

Emanuele Menegatti (UniPD) (INTELLEXO)





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12.30 - 12:45 | The BEHAVE Project: Learning Safe Behaviours for human-robot cooperation, first results

Alessandro Farinelli (Univr) (WP 5.3, TP4)

12:45 - 13:00 | The ResilientPlans Project

Alfonso Emilio Gerevini (Università di Brescia)

13.00 | Light Lunch

Session 3: Data quality and Generative AI (WP5.2, WP5.4, TP2, TP7) Chair: Federico Scafoglieri

14:05 - 14:20 | Semantics-Driven Al: Building Smarter and More Efficient Language Models

Simone Conia (Sapienza)

(Outstanding Paper Award EMNLP 2024 - Outstanding Paper Award ACL 2024)

14:20 - 14:35 | The Minerva LLM Project: How to Build and Evaluate Open Large Language Models for the Italian Language

Edoardo Barba (Sapienza)

14:35 - 14:45 | Automated financial analysis of Italian companies' balance sheets Francesco Bonazzi (Intesa San Paolo)

14:45 - 15:00 | Controllable Text Generation for Evaluating LLMs' Linguistic Competence Alessio Maschi (CNR)

15:00 - 15:15 | Controllable Large Language Models by Enforcing Grammar Compliance Misael Mongiovì (CNR)

15:15 - 15:35 | A Gentle Introduction to Controlled Query Evaluation in DL-Lite Ontologies Lorenzo Marconi (Sapienza)
(Distinguished paper award IJCAI 2024)

15:30 - 15:40 | **HiQu-VKG - Implementing High Quality Virtual Knowledge Graphs** Ognjen Savkovic (Free University of Bolzano)

15:45 - 15:55 | **Progetto ENDURANCE** 

Prof. Riccardo Torlone (Roma Tre)





## **2nd Year Workshop**

February 21, 2025

Session 4: Quality in Machine learning (WP5.5, WP5.6, WP5.7)

Chair: Anna Livia Croella

9:10 - 9:25 | Efficient Graph Coloring with Neural Networks: A Physics-Inspired Approach for Large Graphs

Lorenzo Colantonio (WP5.5)

9:25 - 9:40 | Spurious creativity in associative memories: a new framework to understand generalization in deep networks

Matteo Negri (WP5.5)

9:40 - 9:55 | A random matrix approach to Hopfield-like neural networks: addressing generalization and overfitting

Alberto Fachechi (WP5.5)

9.55 - 10:10 | Explainability techniques for high energy Particle collision Donatella Genovese (WP5.6)

10:10 - 10:25 | Contrast-Enhanced Pre-processing for CNN-Based Source Camera Identification

Silvia Marconi (WP5.7)

10:25 - 10:40 | **ProgettolARA** Indro Spinelli e Leonardo SpA

11:00 | Coffee Break

11:30 - 13:00 | Session 5: Conclusions and Future

Chair: Luca locchi

13.00 | Light Lunch



