Gianmarco Pappacoda

+39 327 546 9611 | gianmarco.pappacoda@unibo.it

Bologna, Italy

Summary

PhD candidate (est. Nov 26) in Computer Science and Engineering at University of Bologna in LTLab under supervision of Prof. Paolo Torroni. Has extensive experience managing large ICT systems.

He is currently involved in Artificial Intelligence in the field Natural Language Processing with a special focus on Knowledge Extraction. His work involves using Large Language Models to create structured Knowledge and to use structured Knowledge for enhancing LLMs capabilities.

Experience

- **DecisionBrain** *11/2023 - Present*

  AI Engineer   Bologna, Italy
  - Develop LLM-based pipelines for Knowledge Extraction and Injection
  - Analyzing business requirements and provide insights on how to implement AI solutions
  - Study and develop agent-based workflows to leverage developed models.

- **Freelance**   *2013-2022*

  Systems Engineer/Architect   Taranto, Italy
  - Set up and perform regular systems maintenance
  - Architect and implement datacenter-level virtualized systems, networking and storage solutions
  - Manage Kubernetes, OpenShift clusters at scale

Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

[C.1] Chiara Brunelli, Gianmarco Pappacoda, Ivan Zyrianoff, Luciano Bononi, Marco Di Felice (2024). **Water Wastage Detection in Smart Homes Through IoT and Machine Learning.** IEEE CCNC 2024.

[C.2] Luca Moroni, Gianmarco Pappacoda, Edoardo Barba, Simone Conia, Andrea Galassi, Bernardo Magnini, Roberto Navigli, Paolo Torroni, Roberto Zanoli (2025). **Sustainable Italian LLM Evaluation: Community Perspectives and Methodological Guidelines.** CLiC-it 2025.

[C.3] Gianmarco Pappacoda (2025). **Entity Name Recognition: an LLM-friendly set-based approach to Knowledge Extraction.** ECAI 2025 DC.

[S.1] Luca Bolognini, Elena Palmieri, Nicolò Donati, Giulia Grundler, Gianmarco Pappacoda, Federico Ruggeri, Andrea Galassi and Paolo Torroni (2025). **A Novel Dataset for Detecting SDG Contributions in Scientific Articles**. Manuscript submitted for publication on *ECAI 2025 main conference*.

[S.2] Andrea Gerardo Russo, Federico Ruggeri, Ivan Tomarchio, Davide Bombini, Nicolò Donati, Gianmarco Pappacoda, Paolo Torroni, Giuseppe-Emiliano La Cara (2025). **Retrieval-Augmented Generation to Support Railways Engineering Tasks: A Case Study**. Manuscript submitted for publication on *EMNLP 2025 Industry Track*.

[S.3] Bernardo Magnini, Andrea Galassi, Gianmarco Pappacoda, Paolo Torroni and Roberto Zanoli (2025). **Assessing LLMs Prompt Sensitivity in Italian language through Multi-Prompting**. Manuscript submitted for publication on *LREC 2026 Main conference*.