Dario Guidotti

✉ dario.guidotti@edu.unige.it
🌐 https://www.dibris.unige.it/guidotti-dario/
in www.linkedin.com/in/dario-guidotti-AIMS/

Employment History

2018 – present 🔖 **Ph.D. Student.** University of Genoa, Italy.
Supervisors: Massimo Narizzano and Armando Tacchella.
Topic: Enhancement of Machine Learning methods through Formal Verification.

04/2018 – 07/2018 🔖 **Master Thesis Intern.** DLR German Aerospace Center, Institute of Robotics and Mechatronics, Cognitive Robotics.
Main activity: Design and Implementation of Artificial Intelligence algorithms for Prosthetics Control.

Education

2016 – 2018 🔖 **M.Sc. Computer Engineering, University of Genoa, Italy.**
Thesis: Investigation in Formal Methods applied in Prosthetic Control.
Final Grade: 110/110 (magna cum laude).

2013 – 2016 🔖 **B.Sc. Computer Engineering, University of Genoa, Italy.**
Thesis: Design and Implementation of a controller for an Autonomous Vehicle for the NXP Cup.
Final Grade: 110/110 (magna cum laude).

Research Publications

Journal Articles

1. **Guidotti, D.**, Leofante, F., Tacchella, A., & Castellini, C. (2019). Improving reliability of myocontrol using formal verification. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*.

Conference Proceedings

1. **Guidotti, D.**, Leofante, F., Pulina, L., & Tacchella, A. (2020). Verification of Neural Networks: Enhancing Scalability through Pruning. In *24th European Conference on Artificial Intelligence - ECAI*.

2. **Guidotti, D.** (2019). Enhancing Neural Networks through Formal Verification. In *Doctoral Consortium - 18th International Conference of the Italian Association for Artificial Intelligence - DC AIIA*.

3. **Guidotti, D.**, Leofante, F., Castellini, C., & Tacchella, A. (2019). Repairing Learned Controllers with Convex Optimization: A Case Study. In *16th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research - CPAIOR*.

4. **Guidotti, D.**, Leofante, F., Pulina, L., & Tacchella, A. (2019). Verification and Repair of Neural Networks: A Progress Report on Convolutional Models. In *18th International Conference of the Italian Association for Artificial Intelligence - AIIA*.

Skills

Languages	Italian native speaker. Good reading, writing and speaking competencies for English (CEFR C1).
Coding	C, C++, C#, Java, Python, Matlab, PHP, SQL, LaTeX.
Web Dev	Html, css, JavaScript.