MATTEO CARDELLINI

University of Genova, Italy ⋄ Polytechnic of Torino, Italy

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EDUCATION

Italian National PhD Programme in Artificial Intelligence   *November 2021 - current*
Work Faculty: University of Genova, Italy
Administrative Faculty: Polytechnic of Torino, Italy

University of Genova, Italy   *September 2019 - July 2021*
Master's Degree on Computer Engineering
Curriculum in Artificial Intelligence and Human-Centered Computing
Final Grade: 110/110 cum Laude and "Dignitá di Stampa"

University of Genova, Italy   *September 2016 - September 2019*
Bachelor's degree on Computer Engineering
Final Grade: 110/110

PUBLICATIONS

– **Solving Rehabilitation Scheduling problems via a Two-Phase ASP approach**. M. Cardellini, P. De Nardi, C. Dodaro, G. Galatà, A. Giardini, M. Maratea, I. Porro. Theory and Practice of Logic Programming, To Appear 2023

– **Rescheduling Rehabilitation Sessions with Answer Set Programming**. M. Cardellini, C. Dodaro, G. Galatà, A. Giardini, M. Maratea, N. Nisopoli and I. Porro. Journal of Logic and Computation, Volume 33, Issue 3, April 2023

– **An ASP Framework for Efficient Urban Traffic Optimization**. M. Cardellini. Electronic Proceedings of the 18th Doctoral Consortium on Logic Programming (ICLP DC 2022), 2022

– **In-Station Train Dispatching: A PDDL+ Planning Approach**. M. Cardellini, M. Maratea, M. Vallati, G. Boleto, and L. Oneto. In Proceedings of ICAPS 2021. AAAI Press, 2021

– **An Efficient Hybrid Planning Framework for In-Station Train Dispatching**. M. Cardellini, M. Maratea, M. Vallati, G. Boleto, and L. Oneto. In Proceedings of ICCS 2021. Springer, 2021

– **A Planning-based Approach for In-Station Train Dispatching**. M. Cardellini, M. Maratea, M. Vallati, G. Boleto, and L. Oneto. In Proceedings of SoCS 2021. AAAI Press, 2021

– **In-Station Train Movements Prediction: from Shallow to Deep Multi Scale Models**. G. Boleto, L. Oneto, M. Cardellini, M. Maratea, M. Vallati, R. Canepa, D. Anguita. In Proceedings of ESANN 2021. i6doc, 2021

– **A Two-Phase ASP Encoding for Solving Rehabilitation Scheduling**. M. Cardellini, P. De Nardi, C. Dodaro, G. Galatá, A. Giardini, M. Maratea and I. Porro. In Proceedings of RuleML+RR 2021. Springer, 2021

– **Answer Set Programming in Healthcare: Extended Overview**. M. Alviano, R. Bertolucci, M. Cardellini, C. Dodaro, G. Galatá, M. Kamran Khan, M. Maratea, M. Mochi, V. Morozan, I. Porro, and M. Schouten. In Proceedings of IPS-RCRA@AI*IA 2020. CEUR, 2020

AWARDS

– **Award AIxIA Leonardo Lesmo 2022**. Special mention for the best Italian Master's Degree Thesis in Artificial Intelligence

TEACHING ACTIVITIES

– **Intelligent Systems**. Teaching assistant. Prof. M. Maratea, Computer Science, University of Calabria (2023)

– **Databases**. Teaching assistant. Prof. A. Boccalatte, Prof. M. Maratea, Computer Engineering, University of Genova (2022)

– **Advanced Artificial Intelligence**. Invited presentations on applications of Planning and Scheduling techniques for real world domains. University of Genova. (2020, 2021, 2022)

EVENTS

– **KEPS 2023**. *PC Member*. Workshop on Knowledge Engineering for Planning and Scheduling

– **ICAPS 2023**. *PC Member*. 33rd International Conference on Automated Planning and Scheduling

– **AAAI 2023**. *PC Member*. 37th AAAI Conference on Artificial Intelligence

– **RCRA 2022**. *Website Manager*. 29th RCRA International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion

– **LPNMR 2022**. *Local Organizer*. 18th International Conference on Logic Programming and Non-monotonic Reasoning

EXPERIENCES ABROAD

– **University of Huddersfield**. *Visiting Researcher - From February to Mid May 2023*. Invited to work in the group of Prof. Mauro Vallati at the Centre for Planning, Autonomy and Representation of Knowledge (PARK)

SUPERVISOR ACTIVITIES

– *October 2022*. **A. Formica**. Master's Degree in Computer Engineering. *In-Station Train Dispatching via Artificial Intelligence Techniques: Optimisation, Rescheduling and Visualisation*. Co-supervisor with Prof. M. Maratea

– *July 2022*. **C. Ansaldo, N. Chiesa**. Bachelor's Degree in Computer Engineering. *Artificial Intelligence Techniques for Solving the Shift Scheduling Problem*. Co-supervisor with Prof. M. Maratea

WORK EXPERIENCE

SurgiQ SRL   April 2021 - November 2021
Researcher   *Genoa - IT*

· Built and optimised scheduling systems based on state-of-the-art artificial intelligence's technologies for the scheduling of physiotherapy sessions for the rehabilitation of patients in hospitals.

Secondhand Mobile SRL   February 2018 - April 2021
CTO e Co-founder   *Genoa - IT*

· Built a cloud based management system accessed daily by more than 140 customers all-over Italy.
· Built and published an iOS/Android App with 65k active downloads.
· Helped the company to grow to 14 employees and a yearly revenue of 5 million euros.
· Managed 4 software engineers using an Agile methodology continuously delivering improvements to the corporate code-base.