

# MATTEO CARDELLINI

Via dei Giardini 12/12 ◊ 16143 ◊ Genova ◊ Italy  
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## EDUCATION

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### **Italian National PhD Programme in Artificial Intelligence**

*November 2021 - current*

Work Faculty: Università degli Studi di Genova

Administrative Faculty: Politecnico di Torino

### **Università degli Studi di Genova**

*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 "Dignità di Stampa"

### **Università degli Studi di Genova**

*September 2016 - September 2019*

Bachelor's degree on Computer Engineering

Final Grade: 110/110

## PUBLICATIONS

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- **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. Galatà, 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. Galatà, 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

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

## TEACHING ACTIVITIES

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- **Intelligent Systems.** Preparation of Exercises. Prof. M. Maratea, University of Calabria (2023)
- **Databases.** Exercises and tutoring. Prof. A. Boccalatte, Prof. M. Maratea, University of Genova (2022)
- **Advanced Artificial Intelligence.** Invited talks on applications of Planning and Scheduling techniques for real world domains. University of Genova. (2020, 2021, 2022)

## EVENTS

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

## SUPERVISOR ACTIVITIES

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- *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

## LANGUAGES

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	<i>Writing</i>	<i>Speaking</i>	<i>Reading</i>
– <b>Italian.</b>	Native	Native	Native
– <b>English.</b>	Excellent	Excellent	Excellent
– <b>German.</b>	Elementary	Elementary	Elementary

## WORK EXPERIENCE

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**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.