

MICHELE URBANI

PERSONAL INFORMATION

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GOAL

To gain fundamental knowledge and to acquire new experience in Operations Research and Machine Learning. I am looking for a position as a post-doctoral researcher or analyst, possibly in a dynamic, highly motivating, international environment. As a junior researcher, the study of reinforcement learning attracted my attention and I would be highly motivated to work with this subject.

EXPERIENCE

2018-Present **Ph.D. Candidate**

*University of
Trento (ITALY) and
LUT University
(FINLAND)*

Research topic: *Maintenance Policies Optimization in the Industry 4.0 paradigm.*
Description: My research aims at developing new methods and models for optimizing maintenance policies in industrial environments.
I spent the year 2020 in Finland as a visiting student at LUT University (Jan-May), and at Aalto University (Jun-Dec) at the System Analysis Laboratory.
Supervisors:
Prof. Matteo BRUNELLI +39 (0461) 283 723 · matteo.brunelli@unitn.it
Prof. Mikael COLLAN +358 (50) 556 7185 · mikael.collan@lut.fi

2019-2021 **Lecturer**

*University of
Trento (ITALY)*

Course: *Optimization Models and Algorithms*
The course is a master level elective course held for students of the master in Materials and Production Engineering and the master in Mechatronics at the Department of Industrial Engineering, and the inter-department master in Data Science.

Jun-Oct 2018 **Research Assistant**

*University of
Trento (ITALY)*

Scope: *Study of a Project Management Model for Public Civil Works*
Description: I worked as a research assistant at the laboratory of maieutics; the goal of the project was the realization of a methodological project management model for public civil works and its implementation in Microsoft Project.

Fall 2017 **Master Thesis Student**

*LUT University
(FINLAND)*

Thesis: *Opportunistic Predictive Maintenance Modeling: a Simulation Approach*
Description: The thesis is a study of the optimization of predictive maintenance in complex industrial plants, where new IoT technologies can be exploited for prognostics on components.

Mar-Jul 2017 **Project Management Support**

*Siemens
Transformers
S.p.A. (Trento)*

Description: Full-time internship experience at the Project Management Office during which I acquired skills in project monitoring, controlling, change management, and risk management.

EXPERIENCE

2015-2018 Master of Science
 University of Materials and Production Engineering · 110/110 with honors.
 Trento (ITALY) Specialization: Industrial Process Management and Optimization

2012-2015 Bachelor of Science
 University of Industrial Engineering · 94/110
 Trento

PUBLICATIONS

Savolainen, J., Urbani, M. Maintenance optimization for a multi-unit system with digital twin simulation, *Journal of Intelligent Manufacturing* (2021), doi: [10.1007/s10845-021-01740-z](https://doi.org/10.1007/s10845-021-01740-z)

Urbani, M., Brunelli, M., Collan, M. A Comparison of Maintenance Policies for Multi-Component Systems Through Discrete Event Simulation of Faults, *IEEE Access* 8:143654 - 143664 (2020), doi: [10.1109/ACCESS.2020.3014147](https://doi.org/10.1109/ACCESS.2020.3014147)

Urbani M., Petri D., Brunelli M., Collan M. Maintenance-Management in Light of Manufacturing 4.0. In: Collan M., Michelsen KE. (eds) *Technical, Economic and Societal Effects of Manufacturing 4.0* Palgrave Macmillan, Cham. (2020) doi: [10.1007/978-3-030-46103-4-5](https://doi.org/10.1007/978-3-030-46103-4-5)

Urbani M., Collan M. Additive Manufacturing Cases and a Vision for a Predictive Analytics and Additive Manufacturing Based Maintenance Business Model. In: Collan M., Michelsen KE. (eds) *Technical, Economic and Societal Effects of Manufacturing 4.0* Palgrave Macmillan, Cham. (2020) doi: [10.1007/978-3-030-46103-4-7](https://doi.org/10.1007/978-3-030-46103-4-7)

COMPUTER SKILLS

Advanced PYTHON
Basic Git, PostgreSQL, MongoDB, Microsoft Excel

OTHER INFORMATION

Languages ITALIAN · Mothertongue
 ENGLISH · Intermediate (C1 level)

Professional Interests Project Management · Optimization Models and Algorithms · Operations Research · Quality, Reliability, Maintenance & System Safety · Reinforcement Learning

Personal Interests Snowboard · Cooking · Trekking · Swimming · Finance

I authorize the processing of my personal data contained in my curriculum vitae according to the regulation of the country of the receiver.

April 29, 2021