CORRADO COPPOLA

🏢 Department of Computer, Control, and Management Engineering Antonio Ruberti (DIAG), Rome, Italy

✉corrado.coppola@uniroma1.it   in www.linkedin.com/in/corrado-coppola-6a67a7202

EDUCATION

PhD Program in Automatic Control, Bioengineering and Operations Research   Nov 2021 – ongoing
Sapienza Univerisity of Rome, Italy
Curriculum: Operations Research, Advisor: Prof. Laura Palagi

Research interests: Deep Reinforcement Learning applied to optimization problems,
Mixed Integer Programming

MSc in Management Engineering   Oct 2019 – Oct 2021
Sapienza Univerisity of Rome, Italy
Curriculum: Decisional Models for Management Engineering

Main subjects: Operations Research, Statistics, Optimization methods for Machine Learning
Derivative-Free and Combinatorial Optimization, Continuous Optimization

Thesis: *Solving the Traveling Salesperson Problem with different Reinforcement Learning Algorithms*
Advisors: Prof. Laura Palagi, Dr. Giorgio Grani (Research Institute Sintef, Oslo, Norway)
Grade: 110/110 cum laude

BSc in Management Engineering   Oct 2016 – Jul 2019
Sapienza Univerisity of Rome, Italy
Experimental Thesis in Operations Research: *Solving a black-box
production scheduling problem*
Advisor: Dr. Giorgio Grani (Research Institute Sintef, Oslo, Norway)
Grade: 110/110 cum laude

Classical High School   2011 - 2015
Liceo Ginnasio Statale T. Tasso, Rome, Italy
Grade: 100/100

CONFERENCES AND WORKSHOPS

19th EUROPT Workshop on Advances in Continuous Optimization   29 - 30 Jul 2022
FCT Nova, Lisbon, Portugal
Delivered a talk titled: *Vehicle Routing Heuristics based on Reinforcement Learning*

Mixed Integer Programming Workshop 2022 - Computational Competition   Mar 2022
Organized by DANiversary
Submitted a report: *PUSH: a new heuristic based on Feasibility Pump and Shifting*

6th AIROYoung Workshop - Operation Research and Data Science in Public Services 23 – 25 Feb 2022
Roma Tre University, Italy
Delivered a talk titled: *Heuristics for the Traveling Salesperson Problem based on Reinforcement Learning*
Attended online

PUBLICATIONS

Technical Reports:

1. C. Coppola, G. Grani, M. Monaci, L. Palagi, *Heuristics for the Traveling Salesperson Problem based on Reinforcement Learning.*

2. C. Coppola, G. Grani, S. Foa, L. Palagi, *Solving the vehicle routing problem with deep reinforcement learning.*

OTHER EXPERIENCES AND AWARDS

Europt Summer School 1 - 2 Aug 2022
FCT Nova, Lisbon, Portugal

Management Engineering Excellence Program Mar – Jun 2021
Sapienza University of Rome, Italy
Ranked first among the highest achieving students, successfully attended the program

Certificate of Proficiency in Russian Language Mar 2019
RUDN, Moscow, Russia
European levels C1 (written), B2 (spoken)

SKILLS

Core Competencies	Operations Research, Machine Learning, Data Analysis
Computer skills	Python, R, AMPL, LaTeX, Arena, MATLAB, MySQL, Microsoft Office
Python Libraries	Numpy, Pandas, Pytorch, Scikit-Learn, CPLEX and Gurobi for Python
Languages	Mother tongue: Italian; Advanced: English, Russian, French; Basic knowledge: German