

Francesco Frattolillo

Curriculum Vitae

Education

2017–2021 : **MSc in Artificial Intelligence and Robotics**, *Sapienza University of Rome*, Rome.

MSc Thesis: "Adaptive Playing and Opponent Modeling in Competitive Games"

Final Grade: 110/110L

2014–2017: **BSc in Computer Engineering**, *University of Naples Federico II*, Naples.

BSc Thesis: "Fusione di dati radar e multispettrali per il monitoraggio di infrastrutture critiche"

Final Grade: 98/110

Research Experience

Sapienza University of Rome, Rome

2021 – ***Survey on Scalable Multi-Agent Deep Reinforcement Learning Approaches.***

present Currently working on a survey on the problems and solutions involved with scalability in multi-agent deep reinforcement learning (MADRL) methods.

2021 ***Adaptive Playing and Opponent Modeling in Competitive Games.***

Proposed and implemented a new method to dynamically scale the opponent's strength, in proportion to the player's abilities, in a two player, perfect information, turn based, zero sum and competitive game.

Fellowships & Awards

2013 1st place in the VI edition of the National Competition "*Sviluppa la tua idea imprenditoriale*" with the project "*OroVerde*"

Computer skills

Programming Languages Python, C++, Javascript, SQL, MATLAB, Java

Markup Languages LaTeX, HTML

Main Libraries Tensorflow, RLib, Numpy, Matplotlib, OpenCV,...

Software and Tools Spyder, Git, Docker, Visual Studio, Eclipse, Netbeans