

Filippo Galli

Pisa, Italy

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WORK EXPERIENCE

Scuola di Studi Superiori Sant'Anna

Research Collaborator, Data Science

Applied research on machine learning and artificial intelligence for data center operations and industrial process optimization.

Pisa, Italy

Aug 2018 - Present

CERN - European Organization for Nuclear Research

Technical Student, Technology department

Simulation and automation of magnetic measurement systems

Geneva, Switzerland

Mar 2017 - Jan 2018

NASA - Jet Propulsion Laboratory

Visiting Researcher Student, Robotics section

Simulation and numerical trajectory optimization for drones via nonlinear MPC

Pasadena, California

July 2016 - Jan 2017

EDUCATION

Politecnico di Torino

Master of Science, Mechatronic Engineering

Major: Robotic systems, perception, control and simulation

Final mark: 108/110

Torino, Italy

Oct 2014 - April 2018

Technische Universität München

Erasmus+, Electrical and Computer Engineering

Major: Computational intelligence

München, Germany

Sep 2015 - Mar 2016

Politecnico di Torino

Bachelor of Science, Electrical Engineering

Major: Power generation, transmission and utilization

Final mark: 103/110

Torino, Italy

Sep 2011 - Oct 2014

PUBLICATIONS

F. Galli, A. Ritacco, G. Lanciano, M. Vannocci, V. Colla, M. Vannucci *Self-supervised pre-training of CNNs for flatness defect classification in the steelworks industry*, To be published in International Journal of Advances in Intelligent Informatics

F. Galli, V. Colla, M. Vannucci *Optimization of data resampling through GA for the classification of imbalanced datasets*, International Journal of Advances in Intelligent Informatics 5.3 (2019): 297-307

M. Vannocci, A. Ritacco, A. Castellano, F. Galli, M. Vannucci, and V. Colla, *Flatness Defect Detection and Classification in Hot Rolled Steel Strips Using Convolutional Neural Networks*, International Work-Conference on Artificial Neural Networks. Springer, Cham, 2019

SKILLS

Languages: Italian (native speaker), English (fluent), German (basic), French (basic)

Programming languages: Python (proficient), C/C++ (intermediate), Matlab/Simulink scripting (intermediate)

Data Science frameworks/Software/OS's: Pandas, Scikit-learn, Tensorflow, Keras, Matplotlib, SQL, Flask, Git, Linux, Robotic Operating System, L^AT_EX, cplex, glp, <https://github.com/philipjk>