

Giulio Rigoni

Updated July 10, 2023

Email: giulio.swe2010@gmail.com

Phone: +39 3407028092

WebPage: <https://sites.google.com/view/rigonigiulio/home>

Citizenship: Italy

Research interests

Cyber-Security, Machine Learning, UAVs.

Research experiences

PostDoc

University of Padua - Dep. of Political Science (SPGI)

Researching the behavior and interaction between social media journalists and users, especially regarding political related topics, mainly through Machine Learning and AI means.

Padua, Italy.
August 2022 – Present

SPRITZ Team Member

University of Padua.

Founder & Mentor: Prof. Mauro Conti.

Researching Security and Privacy issues related to current and future technologies ([here](#)).

Padua, Italy
2018 – Present

Research Grant

University of Padua - Human Inspired Technologies Research Center (HIT).

Researching Security and Privacy in Information Centric Networks.

Padua, Italy
2018

Education

PhD in Computer Science

University of Florence.

Mentor: Prof. Maria Cristina Pinotti.

Florence, Italy
November 2018 – June 2022

MSc in Computer Science - Machine Learning

University of Padua.

Mentor: Prof. Massimo Marchiori.

Padua, Italy

BSc in Computer Science

University of Padua.

Mentor: Prof. Francesca Rossi.

Padua, Italy

Journal Publications

Intrusion Detection Framework for Invasive FPV Drones Using Video Streaming Characteristics

Anas Alsoliman, Giulio Rigoni, Davide Callegaro, Marco Levorato, Cristina M. Pinotti, Mauro Conti.

ACM Transactions on Cyber-Physical Systems.

DOI: 10.1145/3579999.

How the Wind Can Be Leveraged for Saving Energy in a Truck-Drone Delivery System

Francesco Betti Sorbelli, Federico Corò, Lorenzo Palazzetti, Cristina M. Pinotti and Giulio Rigoni.

IEEE Transactions on Intelligent Transportation Systems (T-ITS 2022).

10.1109/TITS.2023.3234627.

On the Evaluation of a Drone-Based Delivery System on a Mixed Euclidean-Manhattan Grid

Francesco Betti Sorbelli, Cristina M. Pinotti and Giulio Rigoni.

IEEE Transactions on Intelligent Transportation Systems (T-ITS 2022).

DOI: 10.1109/TITS.2022.3189948.

A comprehensive investigation on range-free localization algorithms with mobile anchors at different altitudes

Francesco Betti Sorbelli, Sajal Das, Cristina M. Pinotti, Giulio Rigoni.

Pervasive and Mobile Computing (PMC 2021), 73, 101383.

DOI: 10.1016/j.pmcj.2021.101383.

Publications

Delivery with UAVs: A Simulated Dataset via ATS

Giulio Rigoni, Cristina M. Pinotti, Bhumika, Debasis Das, Sajal K. Das.

In Proceeding of the 2022 IEEE 95th Vehicular Technology Conference (VTC 2022).

DOI: 10.1109/VTC2022-Spring54318.2022.9860822.

A Run in the Wind: Favorable Winds Make the Difference in Drone Delivery

Lorenzo Palazzetti, Cristina M. Pinotti, Giulio Rigoni.

In Proceedings of the 18th International Conference on Distributed Computing in Sensor Systems (DCOSS 2021).

DOI: 10.1109/DCOSS2077.2021.00031.

COTS Drone Detection using Video Streaming Characteristics

Anas Alsoliman, Giulio Rigoni, Marco Levorato, Mauro Conti, Cristina M. Pinotti, Nils Ole Tippenhauer.

In Proceedings of the 22nd International Conference on Distributed Computing and Networking (ICDCN 2021).

DOI: 10.1145/3427796.3428480.

ASAIN: A Spy App Identification System based on Network Traffic

Mauro Conti, Giulio Rigoni, Flavio Taffalini.

In Proceedings of the 15th International Conference on Availability, Reliability and Security (ARES 2020).

DOI: 10.1145/3407023.3407076.

UAVs Path Deviation Attacks: Survey and Research Challenges

Francesco Betti Sorbelli, Mauro Conti, Cristina M. Pinotti, Giulio Rigoni.

In Proceedings of the 2nd International Workshop on Internet of Autonomous Unmanned Vehicles (IAUV 2020).

DOI: 10.1109/SECONWorkshops50264.2020.9149780.

Range-free Localization Algorithms with Mobile Anchors at Different Altitudes: A Comparative Study

Francesco Betti Sorbelli, Cristina M. Pinotti and Giulio Rigoni.

*In Proceedings of the 21st International Conference on Distributed Computing and Networking (ICDCN 2020).***Best Paper Award in Networking Track / Distributed Computing Track.**

DOI: 10.1145/3369740.3369766.

Big Web Colors: Analyzing the World Top Sites

Marchiori, Massimo, Giulio Rigoni.

2018 IEEE International Congress on Big Data (BigData Congress).

DOI: 10.1109/BigDataCongress.2018.00020.

Teaching Activities

Identity Management Systems (40 hours)

ITS - Cyber security (SMACT).

Padua, Italy

2023

Blockchain and Smart Contract (8 hours - Teaching Assistant)

Diritto e Tecnologia - University of Padova.

Padua, Italy

2023

Talks

Keynote - Drones Security Overview

2nd Edition of Computer Science and Information Technology Virtual (V-CSIT 2023).

Virtual

February 24, 2023

Invited Talk - COTS Drone Detection using Video Streaming Characteristics

University of Missouri, Rolla.

Virtual

December 11, 2020

TCP & Reviewer

Journals*IEEE Transactions on Network and Service Management, Neurocomputing, International Journal of Information Security, Microprocessors and Microsystems.***Conferences***SECON 2023, WiMob 2023, SECON 2022, CYBER 2021, DCOSS 2021, IEEE ICC 2021, Wi-DroIT 2020, ICDCN 2020, ACM ASIACCS 2020.*

Attended Schools

2019 International Summer School on Blockchain and Cryptocurrencies Security
University of Padua2019 International Summer School on Cyber-Physical System Security
University of Padua2019 International Summer School on System Security
University of Padua2019 International Summer School on Machine Learning and Security
University of PaduaMathematical and Computational Aspects of Machine Learning
Normale

Industry experience

Technology Reply s.r.l.

Full-stack developer and functional analysis

Padua, Italy

07/2017 - 02/2018

Saiv s.p.a.

Full-stack developer

Vicenza, Italy

01/2013 - 10/2013