



Pietro Spadaccino

EDUCATION AND TRAINING

2020 – 2023

PHD - INFORMATION AND COMMUNICATION TECHNOLOGIES Sapienza University of Rome

Classification: excellent

2018 – 2020

MASTER'S DEGREE - ENGINEERING IN COMPUTER SCIENCE Sapienza University of Rome

Final grade 110 cum laude | **Thesis** An Edge-Enabled Anomaly Detection Approach for IoT Environments

2015 – 2018

BACHELOR'S DEGREE - INGEGNERIA INFORMATICA E AUTOMATICA Sapienza University of Rome

Final grade 110

ADDITIONAL INFORMATION

PUBLICATIONS

Challenges and Opportunities in LoRaWAN Security: Exploring Protocol Vulnerabilities, Privacy Threats and the Role of Edge Computing

- 2024

P. Spadaccino, "Challenges and Opportunities in LoRaWAN Security: Exploring Protocol Vulnerabilities, Privacy Threats and the Role of Edge Computing", PhD thesis defended in 2024

Analysis and emulation of BGP hijacking events – 2023

P. Spadaccino, S. Bruzzese, F. Cuomo, F. Luciani, "Analysis and emulation of BGP hijacking events", IEEE IPSN NOMS 2023

Privacy monitoring of LoRaWAN devices through traffic stream analysis – 2022

F. Terenzi, P. Spadaccino, F. Cuomo, "Privacy monitoring of LoRaWAN devices through traffic stream analysis", IEEE WoWMoM 2022

LoRaWAN Behaviour Analysis through Dataset Traffic Investigation – 2022

P. Spadaccino, F. G. Crinò, F. Cuomo, "LoRaWAN Behaviour Analysis through Dataset Traffic Investigation", MDPI Sensors 2022

Ruling Out IoT Devices in LoRaWAN – 2022

P. Locatelli, P. Spadaccino, F. Cuomo, "Demo: Ruling Out IoT Devices in LoRaWAN", IEEE INFOCOM 2022

Intrusion Detection Systems for IoT: opportunities and challenges offered by Edge Computing – 2022

Spadaccino, P., Cuomo, F., "Intrusion Detection Systems for IoT: opportunities and challenges offered by Edge Computing", ITU Journal on Future and Evolving Technologies, 2022

Discovery privacy threats via device de-anonymization in LoRaWAN – 2022

Spadaccino, P., Garlisi, D., Cuomo, F., Pillon, G., Pisani, P., "Discovery privacy threats via device de-anonymization in LoRaWAN". Elsevier Computer Communications 2022

Hijacking Downlink Path Selection in LoRaWAN – 2021

P. Locatelli, P. Spadaccino, F. Cuomo, "Hijacking Downlink Path Selection in LoRaWAN", IEEE Globecom 2021

Discovery privacy threats via device de-anonymization in LoRaWAN – 2021

P. Spadaccino, D. Garlisi, F. Cuomo, G. Pillon, P. Pisani, "Discovery privacy threats via device de-anonymization in LoRaWAN" , MedComNet 2021

Epidemic and Timer-Based Message Dissemination in VANETs: A Performance Comparison – 2020

P. Spadaccino, F. Cuomo, A. Baiocchi, "Epidemic and Timer-Based Message Dissemination in VANETs: A Performance

EPIC: an Epidemic based dissemination algorithm for VANETs – 2019

P. Spadaccino, P. Conti, E. Boninsegna, F. Cuomo, A. Baiocchi, "EPIC: an Epidemic based dissemination algorithm for VANETs", ACM MobiHoc 2019

RESEARCH ASSIGNMENTS

2024 – 2025

Strategie di monitoraggio delle reti abilitanti la progettazione di reti intelligenti e autonome

"Assegno di Ricerca" - Sapienza Università di Roma

03/2023 – 12/2023

Integration of prototype for large-scale water-monitoring with ELEGANT platform and deployment in LoRaWAN testbed

Research activities on the EU project ELEGANT under contract of scientific collaboration and consulting by CNIT (National, Inter-University Consortium for Telecommunications)

2022 – 2023

Border Gateway Protocol: vulnerabilità e validazione di tecniche di sicurezza in ambiente di emulazione basato su dati reali

"Avvio alla Ricerca" research project - Sapienza Università di Roma

11/2022 – 02/2023

Analisi e sviluppo di servizi di data-driven per l'interpretazione di dati da sensori e gestione sicura di database

Research activities under "Incarico di Collaborazione Esterna" contract by Sapienza Università di Roma

2021 – 2022

Intrusion Detection System based on Edge and Stream Computing for LoRaWAN

"Avvio alla Ricerca" research project - Sapienza Università di Roma

07/2021 – 12/2021

Definizione ed implementazione di un sistema di Detection per IoT in modalità stream computing

Research activities under "Incarico di Collaborazione Esterna" contract by Sapienza Università di Roma

OTHER COURSES

2023 – 2023

RESTART Tech Camp on 5G and O-RAN

Advanced course on architecture and infrastructure of 5G and O-RAN

2017 – 2018

CyberChallenge

One of the 26 students selected among 700 requests to participate in the first edition of CyberChallenge cybersecurity course

TEACHING

2022 – CURRENT

5G Postgraduate Academy

- Lectures for 5G academy post-graduate master program 2022 edition
- Lectures for 5G academy post-graduate master program 2023 edition

2021 – CURRENT

Network Infrastructures

Practical tutorials for the course Network Infrastructures available for Master's Degrees in Computer Engineering, Ingegneria delle Comunicazioni, Artificial Intelligence and Robotics, Data Science and Cybersecurity for the academic years:

- 2021 / 2022
- 2022 / 2023
- 2023 / 2024

Curriculum vitae ai fini della pubblicazione