Ioannis Panitsas

17 Hillhouse Avenue, New Haven, 06511, Connecticut, USA

• ioannis.panitsas@yale.edu

EDUCATION

Yale University, New Haven, Connecticut, USA   08/2022 - 08/2028

- Ph.D Student in Electrical Engineering, School of Engineering and Applied Science
  - Concentration: 5G/6G, RAN, Machine Learning, Network Security
  - Advisor: Prof. Leandros Tassiulas

Yale University, New Haven, Connecticut, USA   08/2022 - 12/2023

- M.Sc. in Electrical Engineering, School of Engineering and Applied Science
  - Grade: Honors

School of Military Engineering, Loutraki, Greece   04/2021 - 05/2022

- Certificate in Military Engineering, Engineering Corps, Hellenic Army

University of Patras, Patras, Greece   09/2016 - 07/2021

- Integrated Master's in Electrical and Computer Engineering (5-year joint degree; 300 ECTS)
  - Grade: 8.40/10.0 (top 2% out of ~ 300 students)
  - Advisor: Prof. Dimitrios Serpanos

PROFESSIONAL & RESEARCH EXPERIENCE

Teaching Assistant, Yale University, New Haven, USA   01/2024 - 05/2024
- Introduction to Computing for Engineers and Scientists, ENAS 130

Graduate Research Assistant, Yale Institute of Network Science, New Haven, USA,   08/2022 - 08/2028
- Research in 5G/6G, Open RAN, Machine Learning and Network Security.

2nd Lieutenant, Engineering Corps, Hellenic Army   08/2021 - 05/2022
- Served as the principal trainer for recruit soldiers, overseeing both basic combat training and advanced individual training.

Undergraduate Research Assistant, University of Patras, Patras, Greece   10/2020 - 02/2021
- Focused on the development and implementation of Android/iOS malware detection frameworks using supervised learning techniques.

Embedded Software Engineer, Internship, Dialog Semiconductor, Patras, Greece   08/2020 - 10/2020
- Worked within the quality assurance group as an intern, where I helped in identifying securities vulnerabilities in the protocol Bluetooth Low Energy 5.0.

PUBLICATIONS

Yigit Y., **Panitsas I**., Maglaras L., Tassiulas L., & Canberk B., Cyber-Twin: Digital Twin-boosted Autonomous Attack Detection for Vehicular Ad-Hoc Networks. Accepted in IEEE ICC 2024.

Panitsas I., Mudvari A., & Tassiulas L, Leveraging Constraint-Aware Deep Reinforcement Learning for Adaptive Synchronization in Software-Defined-Networking. arXiv preprint

Panitsas I., Mudvari A., Maatouk A., & Tassiulas L., Predictive and Dynamic Handover Strategy in 6G and Beyond: A Deep and Transfer Learning Approach, Submitted in IEEE GLOBECOM 2024.

SKILLS

- Programming   Python, C, C++, OpenMP, SQL, MongoDB, HTML, CSS, JavaScript
- Tools   Git, Docker, Wireshark, Cuckoo Sandbox, MobSF, OpenAirInterface, OpenRAN Studio

SELECTED PROJECTS

- Exploring and Benchmarking Quantum Convolutional Neural Network Architectures
- Graph Temporal Neural Networks for Link Prediction in Wireless Mesh Networks
- Deep Reinforcement Learning Approaches for SDN Synchronization
- Malware Analysis and Classification using Machine Learning
- Detecting Malicious Network Traffic using Machine Learning
- Anomaly Detection in the 5G RAN

LANGUAGES

- **English** (fluent), **Greek** (native)