Ioannis Panitsas

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ACADEMIC INTERESTS

I am a third-year Ph.D. student in the Department of Electrical and Computer Engineering at Yale University, specializing in AI-driven algorithms for optimizing next-generation networks (5G/6G) and advancing network security.

EDUCATION

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

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

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

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

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

  - 2nd Lieutenant, Engineering Corps, Hellenic Army
  - Served as the primary trainer responsible for recruiting soldiers and supervising the advanced training programs.

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

RESEARCH EXPERIENCE

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

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.

TEACHING EXPERIENCE

Teaching Assistant, Yale University, New Haven, CT, USA   08/2024 - 12/2024
- *Introduction to Communications and Control*, EENG 202

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

PUBLICATIONS

Y. Yigit, **I. Panitsas**, L. Maglaras, L. Tassiulas, and B. Canberk, "Cyber-Twin: Digital Twin-boosted Autonomous Attack Detection for Vehicular Ad-Hoc Networks," in *Proceedings of the IEEE International Conference on Communications (ICC)*, 2024.

I. Panitsas, A. Mudvari, and L. Tassiulas, "Optimizing Time Sensitive Applications in Distributed SDNs with Reinforcement Learning," *arXiv preprint*, arXiv

I. Panitsas, A. Mudvari, A. Maatouk, and L. Tassiulas, "Predictive and Dynamic Handover Strategy in 6G and Beyond: A Deep and Transfer Learning Approach," *arXiv preprint*, arXiv

INTERNSHIPS

5G Intern, Kryptowire Labs, Arlington, VA, USA   07/2024 - 08/2024
- Integrated OSM MANO with OpenStack to deploy an OAI based 5G end-to-end network, utilizing Kubernetes and Helm for orchestration and management.

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.

ATTENDED WORKSHOPS

- **Open AI Cellular (OAIC) Workshop 2024**, Mississippi State University, Starkville, MS, USA
  Experimentation with the OAIC platform for developing AI-driven RAN controllers for 6G research.

- **Young Gladiators 2024**, Northeastern University, Boston, MA, USA
  Explored experimentation and usage of the world's largest wireless emulator, Colosseum for 6G research.

AWARDS

- Yale University Graduate Fellowship (2022)
- Gerondelis Foundation Graduate School Grant (2024)

SKILLS

- Programming   Python, C/C++, JavaScript, Java, OpenMP, SQL, MongoDB
- Tools   Docker, Kubernetes, OpenStack

LANGUAGES

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