Vida Gholamian

Research Assistant · Computer Science

Email: vidagholamiyan94@gmail.com (Personal), v.gholamiyan@iasbs.ac.ir (Academic)

Researchgate, Github, Linkedin, Personal Website

Education

- MSc in Computer Science, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran (Sept. 2019 – Dec. 2022)
 - Thesis Title: Fast Partial Packet Recovery for Network Coding
 - Supervisor: Dr. Peyman Pahlevani
- BSc in Information Technology Engineering, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran (Sept. 2014 – Sept. 2019)
 - Thesis Title: MQTT Protocol and Smart Irrigation Implementation
 - Supervisor: Dr. Peyman Pahlevani

Research Interests

Wireless Communications and Networking, Internet of Things, Data Security, Artificial Intelligence, Network Coding

Publications

Title: Accelerating Partial Packet Recovery in RLNC

Journal: IEEE Communications Letters

Authors: Vida Gholamian, H. K. Nazari, P. Pahlevani, F. Fitzek

Title: FHPRAC: Swift Integrity Verification in PRAC Using HMAC

Status: Submitted for review

Authors: Vida Gholamian, P. Pahlevani

Research Experience

- o Research Assistant at Wireless Communication Lab., IASBS (Jan. 2023 Present)
 - Enhancing the speed of packet recovery and data security using Artificial Intelligence
- Wireless Communication Laboratory Research Intern (Sept. 2019 Dec. 2022)
 - Development of a new method for detecting and correcting erroneous packets in very noisy conditions
 - Securing Packet Communication with FHPRAC
- IoT Laboratory Research Intern (Jun. 2017 Sept. 2019)
 - Developed an online control and monitoring system for intelligent irrigation systems

Teaching Experience

- Graduate Courses
 - Information Theory and Network Coding (2020-2021)
 - Advanced Computer Networks (2020-2021)
 - Distributed Systems (2021)

Instructor: Dr. Peyman Pahlevani

- Undergraduate Courses
 - Network Lab. (2020)
 - Computer Networks (2019-2020)
 - Operating Systems (2019)

Instructor: Dr. Peyman Pahlevani

Duties: Conducting weekly reviews, lab or tutorial sessions, evaluating projects

Honors and Achievements

- o Ranked 28th out of 208 in the 2024 National Ph.D. Entrance Exam
- Ranked 1st and selected as an Exceptionally Talented Student in the graduate program, 2022
- o Ranked 27th out of 426 in the 2022 National Ph.D. Entrance Exam

Skills

- Languages proficiency
 - Persian (Native)
 - English (Proficient)
- Programming Language
 - C/C++, Python, Golang, R
- Tools and Technologies
 - Linux (Ubuntu & Kali), Git, web development, Database design (SQL, NoSQL)
 - Graphic Design (Photoshop, Illustrator), Project management (Scrum, Agile)
 - Network simulators (Kodo, FiFi, NS3), Wireshark
 - LaTeX, MATLAB, MQTT protocol for IoT

Reference

- Dr. Peyman Pahlevani (E: pahlevani@iasbs.ac.ir)
- Dr. Reza Parsamehr (E: reza.parsa@conti-engineering.com)
- Dr. Bahram Sadeghi Bigham (E: b_sadeghi_bi@iasbs.ac.ir)