Hosein Kangavar Nazari

Hosein.kangavar_nazari@tu-dresden.de (Academic), hknstudy@gmail.com (Personal)

Researchgate, Github, Linkedin, Personal Website

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□ PhD Student In Electrical and Computer Engineering Technische Universität Dresden — TU Dresden, Gremany (2022 until Now) Topic: Deterministic communication over wired and wireless links via 5G and Time-Sensitive networking Supervisor: Frank Fitzek ☐ MSc in Computer Science Institute for Advanced Studies in Basic Sciences (IASBS), Iran (2018 - 2021) GPA: 19.94/20, Rank (1/14) Topic: Improving the wireless channel resilience through partial packet recovery of Network Coding-based communication Supervisor: Dr. Peyman Pahlevani □ BSc in Information Technology Engineering Institute for Advanced Studies in Basic Sciences, Iran (2014 -2018) GPA: 18.76/20, Rank (1/44) Topic: Evaluation of WebRTC protocol performance over noisy link on Video Traffic Supervisor: Dr. Peyman Pahlevani **Research Interest**

Publications	_
☐ Age of information	
□ Network Coding	
☐ Wireless Communications	
Traffic Shaping and scheduling	
☐ Time-Sensitive networking	

□ Incremental Joint Scheduling and Routing for 5G-TSN Integration, European Wireless (EW), Rome, Italy, 2023 (accepted for publication).

Authors: Hosein K. Nazari, M. Kurt, H. Liu, S. Senk, G. Nguyen, and F. Fitzek

☐ Bridging the Gap: 5G-TSN Integration for Industrial Robotic Communication, European Wireless (EW), Rome, Italy, 2023, (accepted for publication).

Authors: Hosein K. Nazari, J. Abicht, H. Liu, S. Senk, T. Scheinert, G. Nguyen, and F. Fitzek

☐ Improving the Decoding Speed of Packet Recovery in Network Coding IEEE Communications Letters
Authors: <u>Hosein K. Nazari</u> , K. Ghassabi, P. Pahlevani, D. Lucani
\square Accelerating Partial Packet Recovery in RLNC, IEEE Communications Letters
Authors: V. gholamiyan, <u>Hosein K. Nazari</u> , , P. Pahlevani, F. Fitzek
□ Open-Source Testbeds for Integrating Time-Sensitive Networking with 5G and beyond , CCNC 2023 Workshop: ROBOCOM 2023, Las Vegas, USA, 2023
Authors: S. Senk, <u>Hosein K. Nazari</u> , H. Liu, G. Nguyen, and F. Fitzek
☐ TSN-FlexTest: Flexible TSN Measurement Testbed (Extended Version), arXiv preprint
Authors: M. Ulbricht, S. Senk, <u>Hosein K. Nazari</u> , H. Liu, M. Reisslein, G. Nguyen, F. Fitzek
Teaching Experience
□ Graduate Courses
Practical Implementation of Network Coding (2023), instructed by Prof. Frank Fitzek
Coding Theory (2019-2020), Advanced Computer Networks (2019-2020), Distributed Systems (2020) instructed by Dr. Peyman Pahlevani
□ Undergraduate Courses
Network Lab. (2019), Computer Networks (2018-2019), Operating Systems (Fall academic term 2018), Instructed by Dr. Peyman Pahlevani
Algorithm Design (2017), Data Structure (2017), Instructed by Dr. Mansoor Davoodi Monfared
Duties: Conducting weekly reviews, lab, or tutorial sessions, evaluating projects
Research Experience
Research Associate, ComNets, TU Dresden (2023- until now)
Topic: Developing a 5G-TSN testbed for deterministic communication over the air
Responsibilities: I am engaged in the development of 5G network functions, including application functions and network-side translation services. I am also working on algorithms that facilitate the scheduling and configuration of network devices within the dynamic 5G-TSN network environment.
☐ Research Assistant and Software Developer , Sarve Saba Company (2020 -2022)
Topic: Developing IoT systems for online controlling and monitoring system of air conditioning systems.
Responsibilities: I actively participated in developing an IoT system with Node js framework to control actuators, capture and analyze the sensor data, and provide real-time reports (Identifying, evaluating, and addressing security threats).

☐ Wireless Communication Laboratory Research Intern, IASBS (2018 - 2021)
Topic: Developing an application for monitoring and controlling the Heating, Ventilation, and Air Conditioning (HVAC) system for reducing electric power usage.
Responsibilities: I developed a server to monitor and control the HVAC system. In addition, I designed a user-friendly web interface/dashboard for visually presenting data and generating reports.
Volunteer Experience
☐ Computer Science department representative at the research week firm, Zanjan, 2016 - 2018.
Responsibilities : Presenting the latest software/products developed in the Computer Science department of IASBS
☐ University representative at the 5th exhibition of ELECOMP fair, presenting an IoT-based system for online classrooms, 2017, Zanjan.
Responsibilities : Presenting the latest software/products developed in the IoT Lab of IASBS
Skills
☐ Language proficiency: Persian (Native), English (Proficient), German (Beginner)
☐ Familiar with
Several programming languages, including C++, Python, and Javascript.
Linux (Ubuntu & Kali), Git, web development programming, databases
Network simulators and measurement tools (Including PyErasure, Kodo and FiFi Simulators, NS3 Simulator, Wireshark, etc.).