

Ali Javadi

Curriculum Vitae

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Education

- 2023–Present **PhD of Computer Architecture**, Iran University of Science and Technology, Tehran, Iran, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
- 2020–2023 **Masters of Computer Architecture**, Iran University of Science and Technology, Tehran, Iran, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
- 2015–2019 **Bachelor of Computer Software Engineering**, Semnan University, Semnan, Iran.

Masters Thesis

- Title *Providing an Efficient Task Offloading Algorithm in Fog Computing Applications*
- Supervisors Dr. Amir Mahdi Hosseini Monazzah
- Description We Have Presented FACT as a Solution Using Reinforcement Learning Algorithms to Improve Task Offloading Destination Determination, Resulting in a 19.04% Improvement in Task Hit Ratio and Reduction of Task Lateness Compared to Other Methods.

Research Interests

1. **Memory Systems.**
2. **In Memory Computing.**
3. **Fault-tolerant Design.**
4. **Internet of Things.**
5. **Fog Computing Infrastructures.**
6. **Embedded Systems.**
7. **Low-power Design.**
8. **Reinforcement Learning.**

Honors & Awards

1. **Ranked 4th in Ph.D. Computer Architecture Entrance Exam.**

Skills & Abilities

Programming Languages	VERILOG HDL, VHDL, SYSTEMC, C/C++
Tools	ALTIUM DESIGNER, COOJA, MODEL SIM, HDL DESIGNER, MATLAB & SIMULINK, HSPICE, LABVIEW, CLOUDSIM, IFOGSIM
Software	LATEX, ICDL, AUTOCAD
Intermediate	PYTHON, L ^A T _E X, OpenOffice, Linux, Microsoft Windows
Advanced	Computer Hardware

Teaching

2023-Fall	Computer Architecture Laboratory , LECTURER, Iran University of Science and Technology.
2022-Fall	Design of Fault-tolerant Systems , TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
2020–Present	Embedded and IoT Systems , TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
2023-Fall	Advanced Computer Architecture , TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Pejman Lotfi-Kamran.
2020-Fall	Computer-aided Design , TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Hajar Falahati.
2020-Fall	Microprocessor and Assembly Language , TEACHER ASSISTANT, Semnan University.
2020-Fall	Interface Circuits Design , TEACHER ASSISTANT, Semnan University.
2019-Fall	Digital Systems Design , TEACHER ASSISTANT, Semnan University.
2019-Fall	Artificial Intelligence , TEACHER ASSISTANT, Semnan University.
2019-Fall	Robotics Workshop , LECTURER, Semnan University.
2029-Fall	ARM Workshop , LECTURER, Semnan University.

Working Experience

Summer 2023	CEO and Founder , CYBER PHYSICAL PIONEERS(METABLE), Tehran, Iran.
Summer 2023	Visiting Lecturer , IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, IUST, Tehran, Iran.
Summer 2021	Technical Consultant , IRAN SMALL INDUSTRIES AND INDUSTRIAL PARKS ORGANIZATION, ISIPO, Tehran, Iran. Freelancer

Publications

A. Javadi, A.M.H. Monazzah, "Fuzzy Assisted Machine Learning Based Computation Offloading Scheme for Internet-of-Things Infrastructure", Submitted to Internet of Things Journal

H. Pourrahmani, A. Javadi, A.M.H. Monazzah, J.V. Herle a “Real-time H2S detection kit for hydrogen fuel cell”, Heliyon, Elsevier

A. Javadi, A.M.H. Monazzah, Investigating the Use of Energy Harvesters for Wireless Sensor Networks, the 4th National Informatics Conference, 2023, Iran

M. Aliazam, A. Javadi, A.M.H. Monazzah, Investigating the Ways of Increasing Reliability and Accessibility in Fog-based Health Care Systems, the 28th International Conference of Computer Society, 2023, Iran

A. Javadi, Z. Naderi, A.M.H. Monazzah, Investigating the Effects of RPL Objective Functions in Energy Harvesting of Thermoelectric Sensors, Journal of Computer Science, 8(3), 2024, Iran

Please check my google scholar page for an up to date list of my publications

Accomplished Projects

- 2023 **Vending Machine Controller.**
Metable Co.
- 2022-Present **PATRIIoT IoT Platform, Project Manager.**
Metable Co.
- 2023 **LoRa AccessPoint Development.**
Metable Co.
- 2022 **Design and Manufacture of Hydraulic Mobile Lifting Jack Controller Board.**
Parizan Sanat Co.
- 2021 **Design and Manufacture Control Board of Hydraulic Tensile Testing Machine.**
Khak Pey Arvin Co.
- 2020 **Design and Implementation of Intelligent GreenHouse Control System.**
Pooya Fanavaran Energy Qumis Co.
- 2020 **Namak Smart Librarian.**
Semnan Book Capital Secretariat
- 2020 **Design and Implementation of Car Tracker.**
Parsian Lotus Khavarmianeh Co.
- 2019 **Solar Panel Angle Control Circuit.**
Fanavar Hamrah Houshmand Ofoq Co.
- 2019 **Intelligent Controller of the Air Conditioning System.**
Tahviah Gostar Arvan Co.
- 2018 **Rack Monitoring System.**
Kumeshian Part Pishrafte Co.

Languages

- Farsi **Native Speaker**
- English **Fluent**