Hamid Fadishei

Assistant Professor, University of Bojnord
Member of the Board, Niligo IoT Company

(+98)912-4546946
fadishei@ub.ac.ir
t.me/fadishei

Profile

A motivated computer engineering researcher featuring extensive experience in both practical and theoretical aspects of the field; an enthusiast teacher who emphasizes on practical applications of the concepts taught; and a computer engineer who loves software and hardware development as both hobby and work.

Education

Ferdowsi University of Mashhad   2009-2014
PhD, Parallel and Distributed Systems
Under Supervision of Dr. Hossein Deldari

Amirkabir University of Tehran   2003-2005
MSc, Computer Engineering
Under Supervision of Dr. Morteza Saheb Zamani

Amirkabir University of Tehran   1999-2003
BSc, Computer Engineering
Under Supervision of Dr. Hossein Pedram

Research Interests

Parallel and Distributed Systems
Internet of Things
Big Data

Selected Projects

Enterprise-scale Telephony Service Bus
Middle East Communications Development, Mashhad (2018-2019)
Design and implementation of an enterprise communications service gateway and its service bus. The platform is currently deployed as the backend of Avanak sound messaging operator
for more information, refer to https://www.avanak.ir/

Content-based Music Information Retrieval
Ashena Group, Mashhad (2016-2017)
Design and implementation of a music search engine capable of finding music pieces by hearing a short segment of it

IoT Smart Bulb
Niligo IoT Co., Tehran (2015-2016)
Design, Implementation and Manufacturing of a smart light bulb with wireless IP connectivity for controlling color and intensity through web services. For more information, refer to https://niligo.com

Nahid Satellite Imaging Equipment
Amirkabir University of Technology, Tehran (2015)
Design of an industrial satellite-grade embedded ARM board for image capturing on Nahid Satellite
Under supervision of Dr. Rahmati (Amirkabir University)

VZCall Service Creation Environment
Ashena Co., Mashhad (2015)
Design and development of a graphical telephony service creation environment

ISMN
Data Processing Co., Tehran (2015)
An umbrella management network for national telecommunications switching infrastructure.
Under supervision of Dr. Pedram, Dr. Sabaei, and Dr. Dehghan (Amirkabir University)

F4 Airplane Test Equipment Renovation
Jahad Khodkafaei Center, Mehrabad Airport, Tehran (2008)
Reverse engineering and renovation of the storage part of the test equipment used in testing the radar system of the F4 Airplane

Boeing Airplane Test Equipment Renovation
Jahad Khodkafaei Center, Mehrabad Airport, Tehran (2005)
Reverse engineering and replacement of the whole test equipment of Boeing 747/707 airplanes

---

Patents

IoT Smart Bulb
Iran Patent No. 89466, Aug 2016
Design, Implementation and Manufacturing of a smart light bulb with wireless IP connectivity for controlling color and intensity through web services

References

Mr Rahim Kazerani
CEO, Middle East Communications Development
Client of several projects mentioned in the selected projects section
09124146557

Mr Hamidreza Bahrainy
CEO, Ashena Group
Client of several projects mentioned in the selected projects section
09126998864

Dr Morteza Saheb Zamani
Associate Professor, Amirkabir University of Technology
szamani@aut.ac.ir

Dr Mohammad Rahmati
Associate Professor, Amirkabir University of Technology
rahmati@aut.ac.ir

Dr Masoud Sabaei
Head of Computer Engineering Department,
Associate Professor, Amirkabir University of Technology
sabaei@aut.ac.ir

Dr Hoessein Deldari
Associate Professor,
Ferdowsi University of Mashhad
hd@um.ac.ir

Journal Papers

Hamid Fadishei, and Azadeh Soltani. *"The curse of indecomposable aggregates for big data exploratory analysis with a case for frequent pattern cubes," The Journal of Supercomputing 76.1 (2020): 688-707.*

Hamid Fadishei*, "Energy-Efficient Human Activity Recognition on Smartphones: A Test Cost-Sensitive Approach", International Journal of Information Technology and Communications Research, 2019.*

Hamid Fadishei, Reza Niroomand, and Elham Mohammadzadeh. "Ethical Challenges of Big Data," Journal of Ethics in Technology, Accepted for Publication, 2016 (Persian)

Hamid Fadishei, Hossein Deldari, and Mahmoud Naghibzadeh. "Pre-execution power consumption prediction of computational multithreaded workloads," Springer Cluster Computing vol. 17, no. pp. 1323-1333, 2014

Hamid Saadatfar, Hamid Fadishei, and Hossein Deldari. "Predicting Job Failures in AuverGrid Based on Workload Log Analysis," Springer New Generation Computing 30.1 (2012): 73-94

Hamid Fadishei, Mehdi Saeedi, and Morteza Saheb Zamani. "A fast IP routing lookup architecture for multi-gigabit switching routers based on reconfigurable systems." Elsevier Microprocessors and Microsystems 32.4 (2008): 223-233.

Conference Papers	Hamid Fadishei, Sahar Doustian, and Parisa Saadati, *"The Merits of Bitset Compression Techniques for Mining Association Rules from Big Data",* International Congress on High Performance Computing and Big Data Analytics (TopHPC), Tehran, April 2019.
	Elham Mohammadzadeh, Reza Niroomand, Hamid Fadishei, "Concept of Privacy in Big Data Era," Second National Conference of Information Systems, University of Tehran, February 2016 (Persian)
	Hamid Fadishei, Alireza Mohammadbagher Tehrani, "Current and Future of Research in IoT World," Third International Conference on Applied Research in Computer and IT, University of Malek Ashtar, February 2016 (Persian)
	Hamid Fadishei, Hossein Deldari, "Design and Prototyping of a Computational Power Consumption Research Platform," Third International Conference on Applied Research in Computer and IT, University of Malek Ashtar, February 2016 (Persian)
	Hamid Fadishei, Hamid Saadatfar, Hossein Deldari, "Job failure prediction in grid environment based on workload characteristics," Proceedings of the 14th International CSI Computer Conference, CSICC 2009, pp. 329-334, 20-21 Oct. 2009
	Hamid Saadatfar, Hamid Fadishei, and Hossein Deldari. "The Study of the Relations Between Grid Job Failure Patterns and Workload Characteristics," IEEE IACC'09, pp. 3697-3701. 2009
	Hamid Fadishei, Morteza Saheb Zamani, Masoud Sabaei, "A novel reconfigurable hardware architecture for IP address lookup," Symposium on Architecture for Networking and Communications Systems, ANCS 2005, pp.81,90, 26-28 Oct. 2005
	Hamid Fadishei, Masoud Sabaei, and Morteza Saheb Zamani, "An IP Address Lookup Method Using Reconfigurable Hardware", CSICC (Computer Society of Iran Computer Conference), Sharif University of Technology, Tehran, Iran, February 2004, pp. 120-127 (Persian)

Teaching	Big Data Systems and Analytics (MSc)
	Advanced Operating Systems (MSc)
	Computer Programming
	Computer Architecture
	Operating Systems
	Microprocessor Systems
	Electronic Design Automation
	Application Development for Mobile Devices

Selected Skills

Software Project Management

Software Development
Java EE, Python, JS, PHP, Android Platform, and C/C++

Software Frameworks
Spring IoC, Hibernate and MyBatis ORM, etc

Electronic Design Automation
VHDL/Verilog Development and Simulation
FPGA System Design and Implementation

Embedded/IoT System Design and Development
Design of ARM-based embedded systems and IoT nodes
Firmware development for embedded systems and IoT nodes

Telephony System Development
Asterisk PBX setup and development

Linux Kernel Development

Math and Statistics
Python, R and MATLAB Analytics

Linux Server Administration
Various services: Mail, DNS, Web, etc
Linux Customization and Scripting (Bash, Python, etc)

Honors

Ranked first among 21 students of B.S. at Amirkabir University of Technology

Ranked 16th among more than 5000 participants in the national qualifying exam for graduate studies

Recipient of appreciation letter from Minister of Science and Technology

Recipient of appreciation letter from Minister of Communications and Information Technology

Language	**TOEFL iBT Score: 105/120**	
	Reading: 29, Listening: 29, Speaking: 22, Writing: 25	

Job Positions	**Niligo IoT Co.**	2016-Present
	Cofounder and Member of Directors	
	University of Bojnord	2015-Present
	Head of ITC Center (2016-2019) , Assistant Professor	
	Ashena Co.	2007-2015
	Part-time IT Consultant and Project Manager	
	Data Processing Co.	2005-2007
	Senior Software Developer	
	Takpardaz Omid Co.	2004-2005
	Firmware developer	
	Metanet Amirkabir Co.	2002-2004
	Network Application Developer	