















HAMIDREZA MAHINI

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LINKS

 0000-0002-5995-1738	 hamidreza-mahini.github.io	 LinkedIn Profile
 Google Scholar Profile	 github.com/hamidreza-mahini	 ResearchGate Profile
 Publons Profile	 Mathworks Community Profile	 Acedemia Profile

EDUCATION

2016	Ph.D. (P.Eng.) Degree	 Science & Research branch (SRBIAU), Islamic Azad University
	Field/Major Computer Software Systems Engineering	
	 Dissertation "Game Theory Approach to Resource Allocation in Peer to Peer Video Streaming"	
	 Supervisor Dr. Mehdi Dehghan Takht Fooladi	
	 Advisors Dr. Hamidreza Navidi and Dr. Amir Masoud Rahmani	
	★ GPA 19.08 of 20	
2010	M.Sc. (M.Eng.) Degree	 Iran University of Science and Technology (IUST)
	Field/Major Information Technology Engineering – Secure Communications	
	 Thesis "A Scalable IP Lookup Scheme in Internet Routers"	
	 Supervisor Dr. Reza Berangi	
	★ GPA 16.03 of 20	
2010	B.Sc. (B.Eng.) Degree	 Iran University of Science and Technology (IUST)
	Field/Major Computer Software Engineering	
	 Thesis "Blur Identification in Linear Motion-Blurred Images using Artificial Neural Networks"	
	 Supervisor Dr. Mohsen Ebrahimi Moghaddam	
	★ GPA 16.72 of 20	

AWARDS

May 2002	1 th place in the field of programming - Second National Skills Olympiad (Provincial stage)
June 2002	4 th place in the field of programming - Second National Skills Olympiad (National stage)
May 2004	2 th place - ACM trial competition (North Region of Iran)

EXPERIENCE

1/2011 – Present	Academic Staff	Islamic Azad University Gorgan branch
	Assistant Professor in the Computer Engineering Department	
8/2015 – 5/2016	Director of Information and Communication Technology office	Islamic Azad University Gorgan branch
9/2014 – 9/2015	Mathematics Teacher	Soroush High School
7/2011 – 1/2013	Director of Information and Communication Technology office	Islamic Azad University Gorgan branch
3/2009 – 7/2011	Head of Computer Engineering Department	SAMA Technical and Vocational Training College Gorgan branch
7/2008 – 12/2008	Vice-President for Research and Technology	University of Applied Science and Technology Gorgan Khane Kargar branch
7/2008 – 12/2008	Head of Industry Department	University of Applied Science and Technology Gorgan Khane Kargar branch
7/2005 – 3/2007	Programmer and Project Manager	SATER Computer Systems Development Company
6/2003 – 9/2003	Programmer	Booria CAD, CAM Systems Company

SKILLS

• Scientific Tools and Simulators

- MATLAB
- OMNet++ (Discrete Event Simulator)
- CLIPS (A Tool for Building Expert Systems)

• Programming and Scripting Languages

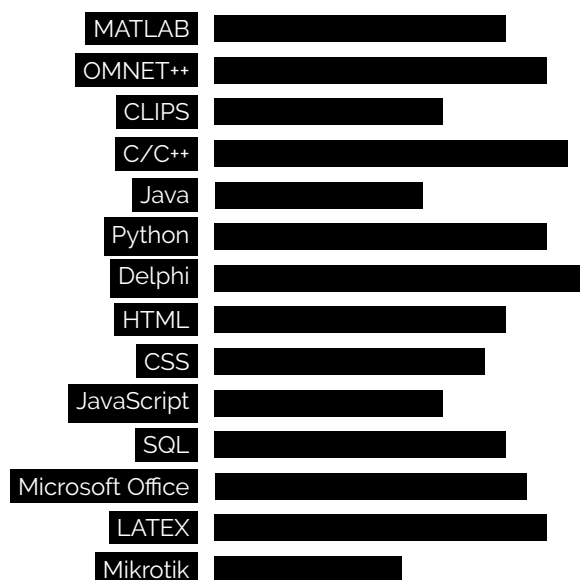
- C/C++
- Java
- Python
- Delphi
- HTML
- CSS
- JavaScript
- SQL

• Documentation

- Microsoft Office
- L^AT_EX

• Computer Networks

- MTCNA (Certificate Number: 1512NA428)



⚙️ INDUSTRIAL PROJECTS

- Setting up a video conferencing server based on Jitsi meet for the Golestan region of Iran Telecommunication company
- Designing and implementing a WiFi push notification system based on Raspberry Pi for the Golestan province ADSL subscribers of the Iran Telecommunication company
- Project manager in design and Implementing the Wireless Infrastructure of Gorgan Islamic Azad University
- Member of the Steering Committee in the Islamic Azad University BPMS Project
- Senior programmer in Diet software project, which is a medical application
- Senior programmer in Skin Care software project, which is a medical application
- Senior programmer in Sabt Sherkat software project, which is a legal and automation application for Africa holding Corporation.
- Senior programmer in Iran Termeh software project, which is a textile application
- Senior programmer in Carpet Weaving software project, which is a textile application

🏛️ TEACHING

I have offered a couple of computer science and engineering courses from Fall 2006 in many colleges and universities in Iran, which some of them are listed below:

UNDERGRADUATE COURSES

- Computer Networks
- Web Design and Development
- Data Structures and Algorithms
- Design and Analysis Algorithms

GRADUATE COURSES

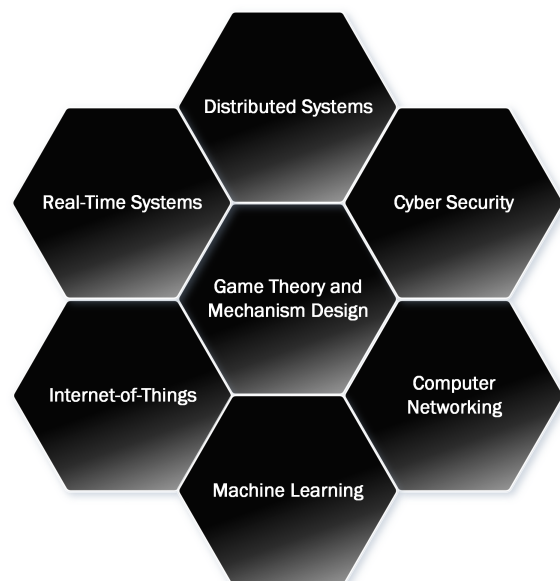
- Game Theory
- Advanced Computer Networks
- Real-Time Embedded Systems



Some of my video lectures can be visited at <https://www.aparat.com/MahiniAcademy>.

🔍 RESEARCH INTERESTS

- **Game Theory and Mechanism Design**
- **Computer Networking**
 - Multimedia Networks
 - High-Speed Networks
- **Distributed Systems**
 - Cloud Computing
 - Fog Computing
 - Edge Computing
- **Cyber Security**
 - Intrusion Detection and Prevention Systems
- **Real-Time Systems**
- **Internet-of-Things (IoT)**
- **Machine Learning**



★ RESEARCH PROJECTS (SCIENTIFIC GRANTS)

2013-2014	Design a Wireless Intrusion Detection and Prevention System against the Man-In-The-Middle Attack	SAMA Technical and Vocational Training College Gorgan branch
	The leader of the project	
2011-2012	Design and Implementation of SAMA Schools Web Site	SAMA Technical and Vocational Training College Gorgan branch
	The leader of the project	

👤 PH.D. STUDENTS

2016-Present	Mehrdad Asadi	Ph.D. (P.Eng.) candidate in Computer Software Systems
	<ul style="list-style-type: none"> • Co-Supervised with Prof. Mahmoud Fathy • <i>Fog/Cloud computing based safe driving assistant model in Intelligent Transportation Systems</i> 	
2016-Present	Yousef Ostadi	Ph.D. (P.Eng.) candidate in Computer Software Systems
	<ul style="list-style-type: none"> • <i>Game theory approach to caching mechanism in mobile edge computing</i> 	
2017-Present	Fatemeh Babaei	Ph.D. candidate in Applied Mathematics
	<ul style="list-style-type: none"> • Co-Supervised with Prof. Hamidreza Navidi • <i>Cost and resource allocation in bankruptcy problem</i> 	
2017-Present	Ali Jannati Ataei	Ph.D. (P.Eng.) candidate in Computer Software Systems
	<ul style="list-style-type: none"> • <i>Resource management in fog/cloud based Internet-of-Healthcare-Things (IoHT)</i> 	

👤 M.SC. STUDENTS

2020-Present	Aref Aberi	M.Sc. (M.Eng.) student in Computer Software Engineering
	<ul style="list-style-type: none"> • <i>A cooperative approach to cache placement in cloud/fog computing</i> 	
2020-Present	Mohammad Hossein Nemati Ghazvini	M.Sc. (M.Eng.) student in Computer Software Engineering
	<ul style="list-style-type: none"> • <i>A game theory approach to proactive cache placement in cloud/fog computing</i> 	
2018-Present	Mobin Taneh	M.Sc. (M.Eng.) student in Computer Software Engineering
	<ul style="list-style-type: none"> • <i>Design and implementation of an adaptive video conferencing system based on WebRTC</i> 	
2015-2019	Mobin Koosha	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	<ul style="list-style-type: none"> • <i>Resource allocation in real-time fog computing-based IoT services</i> 	
2015-2020	Seyyed Mohammad Javad Mirkatooli	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	<ul style="list-style-type: none"> • <i>Virtual-Machine trading in a cloud federation to maximize cloud providers' profits</i> 	

2014-2018	Azar Ghamangiz	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Dealing with RPL attacks in the Internet-of-Things based on 6LoWPAN</i>	
2016-2018	Hamed Molaeinejad	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Trigger strategy approach to resource allocation in Peer-to-Peer systems</i>	
2016-2018	Mahboubeh Aghili	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Smart data pricing in a cloud federation</i>	
2016-2018	Rouhollah Lolaei	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Byzantine fault tolerable clock synchronization in the real-time distributed systems against</i>	
2015-2018	Mina Shahini	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Resource allocation in fog computing based Internet-of-Things</i>	
2015-2018	Esmail Gorzin	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Resource allocation in an adaptive P2P video streaming based on HetNets</i>	
2014-2017	Effat Khorraminia	Graduated with M.Sc. (M.Eng.) in Computer Software Engineering
	• <i>Game theory approach to incentive mechanism in the peer-to-peer video streaming overlay network</i>	

PUBLICATIONS

JOURNALS

1. **Hamidreza Mahini**, Amir Masoud Rahmani, and Seyyedeh Mobarakeh Mousavirad. An evolutionary game approach to iot task offloading in fog-cloud computing. *The Journal of Supercomputing*, pages 1–28, 2020a
2. **Hamidreza Mahini** and Seyyedeh Mobarakeh Mousavirad. Wifi intrusion detection and prevention systems analyzing: A game theoretical perspective. *International Journal of Wireless Information Networks*, 27(1):77–88, 2020
3. **Hamidreza Mahini**, Reza Hajisheykhi, and Mina Shahini. Qos and traffic aware greedy resource allocation in foggy internet of things. *International Journal of Communication Networks and Distributed Systems*, 25(1): 95–121, 2020b
4. **Hamidreza Mahini**, Mehdi Dehghan, Hamidreza Navidi, and Amir Masoud Rahmani. Game theory approach to peer-to-peer video streaming: a comprehensive survey. *International Journal of Autonomous and Adaptive Communications Systems*, 11(4):333–364, 2018
5. **Hamidreza Mahini**, Mehdi Dehghan, Hamidreza Navidi, and Amir Masoud Rahmani. Peer-assisted video streaming based on network coding and beer-quiche game. *AEU-International Journal of Electronics and Communications*, 73:34–45, 2017
6. **Hamidreza Mahini**, Mehdi Dehghan, Hamidreza Navidi, and Amir Masoud Rahmani. Game-plive: a new game theoretic mechanism for p2p live video streaming. *International Journal of Communication Systems*, 29(6): 1187–1203, 2016
7. S Mobarakeh Moosavirad, Peyman Kabiri, and **Hamidreza Mahini**. Rashnu: a wi-fi intrusion response scheme. *Security and Communication Networks*, 8(12):2070–2078, 2015
8. S Mobarakeh Moosavirad, Peyman Kabiri, and **Hamidreza Mahini**. Rssat: A wireless intrusion detection system based on received signal strength acceptance test. *Journal of Advances in Computer Research*, 4(1): 65–80, 2013
9. **Hamidreza Mahini** and Reza Berangi. Eastfile: An energy aware, scalable, and tcam based fast ip lookup engine. *International Journal of Computer Networks & Communications*, 4(5):35–55, 2012

10. **Hamidreza Mahini**, Reza Berangi, and Alireza Mahini. Mlet: a power efficient approach for tcam based, ip lookup engines in internet routers. *International Journal of Computer Networks and Communications*, 2(3): 13–26, 2010
11. **Hamidreza Mahini**, Alireza Mahini, and Javad Ghofrani. Xdanng: Xml based distributed artificial neural network with globus toolkit. *International Journal of Computer Science and InformationSecurity*, 2(1), 2009

INTERNATIONAL CONFERENCES

1. Alireza Mahini, Reza Berangi, **Hamidreza Mahini**, and Hossein Mohtashami. Scalable, low power and storage efficient parallel lookup engine architecture for ip packets. In *2008 15th International Conference on Mixed Design of Integrated Circuits and Systems*, pages 611–617. IEEE, 2008a
 2. Alireza Mahini, Reza Berangi, Hossein Mohtashami, and **Hamidreza Mahini**. Low power and storage efficient parallel lookup engine architecture for ip packets. In *Computer Society of Iran Computer Conference*, pages 718–722. Springer, 2008b
 3. Alireza Mahini, Reza Berangi, Seyedeh Fatemeh, Khatami Firouzabadi, and **Hamidreza Mahini**. Low power tcam forwarding engine for ip packets. In *MILCOM 2007-IEEE Military Communications Conference*, pages 1–7. IEEE, 2007
 4. Mohsen Ebrahimi Moghaddam, Mansour Jamzad, and **Hamidreza Mahini**. Motion blur identification in noisy images using feed-forward back propagation neural network. In *International Workshop on Intelligent Computing in Pattern Analysis and Synthesis*, pages 369–376. Springer, 2006
- Also, dozens of papers in the national conferences in Persian in the form of oral presentations and posters

REVIEWER

I have been a reviewer in some prominent journals. Some of them are listed below:

- *The Journal of Supercomputing*
- *Multimedia Systems*
- *IEEE Transactions on Circuits and Systems for Video Technology*
- *International Journal of Electrical and Computer Engineering (IJECE)*
- *Security and Communication Networks*
- *Journal of Advanced Mathematical Modeling*

The verification of the claim can be found in my *Publons profile*.

MEMBERSHIP IN SCIENTIFIC SOCIETIES



Graduate Student Member Since 2014 to 2016

LANGUAGES

- **Persian** - Native Language
- **English** - Speak fluently and read/write with high proficiency