Saeid Akhavan

Curriculum Vitae

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Education

PhD

Graduated in 2018
: **PhD of Computer Engineering-Network**, *University of Tehran*, Dept of Electrical and Computer Engineering, *GPA − 17.3/20*.
Relevant Course Work (All with grades A+ or A): Advanced Networks, Performance Analysis of Computer Networks, Bio Inspired Computation, Social Networks, Advanced E-Learning

Master of Science

2009–2011
: **Master of Information Technology Engineering**, *Sharif University of Technology*, International Campus, *GPA − 17.3/20*.
Relevant Course Work (All with grades A+ or A): Modeling and Analysing of Computer Networks, Stochastic Processes, Advanced English course, Semantic Web, Network Security, Advanced Distributed Systems, Signals and Systems, Wireless Networks, Advanced Network Security, Interconnection Networks.

Bachelor of Science

2004–2009
: **Bachelor of Software Engineering**, *University of Isfahan*, Dept of Computer Engineering, *Relevant Course work GPA − 17/20*.
Relevant Course Work: Algorithms Design (19.5/20), Data Structures (19/20), Software Engineering I (18.9/20), Design and Development of Programming Languages (19/20), Artificial Intelligence (17.5/20), Internship (19/20), English Language Course (18/20), Computer Architecture Lab (18/20).

Sabbatical

Title
: *One year research associate at University of Colorado Boulder, USA.*

Supervisor
: Dr. Behrouz Touri, University of California San Diego.

Supervisor
: Dr. Jason Marden, University of California Santa Barbara.

PhD Thesis

Title
: *Improving the Throughput of Vehicular Networks*

Supervisor
: Dr. Ahmad Khonsari.

Master Thesis

Title
: *An Intelligent Routing in Vehicular Ad Hoc Networks*

Supervisor
: Dr. Faramarz Hendessi.

Bachelor Thesis

Title	*Map Generating Using Laser Sensor*
Supervisor	Dr. Amir Monadjemi.

Awards and Honors

2011	Among **top 10** selected students of the PhD entrance exam in my country.
2015-2016	Awarded **Full Scholarship** for visiting the University of Colorado Boulder, USA, for one year as research associate.
2011-2017	Awarded **Full Scholarship** to study at University of Tehran for PhD program.
2007	**Ranked 4th**, International Robocup Competition, Member of "UI-AI" team, 3D Development Soccer Simulation League, Atlanta, USA.
2007	**Ranked 5th**, International Robocup Competition, Member of "UI-AI" team, 3D Soccer Simulation League, Atlanta, USA.
2008	**Ranked 7th**, Certificate of Achievement for the ACM Asia Programming, Among over 80 teams in Asia Regional Competition, Tehran Site.
2008	**Ranked First**, TAC-SCM, Local Contest at University of Isfahan, Iran.

Research Interests

- Communication Networks
- Algorithm Design
- Mathematial Modeling & Algorithm Design
- Distributed Computation and Optimization
- Machine Learning

Publications

2018	"Cooperative Caching for Content Dissemination in Vehicular Networks", Saeid Akhavan Bitaghsir., Dr. Ahmad Khonsari, Journal of Communication Systems.
2017	"Coded Multicasting for Content Dissemination in a Cellular Vehicular Network", Saeid Akhavan Bitaghsir., Dr. Ahmad Khonsari, IEEE Communication Letters.
2017	"Improving the Throughput of Vehicular Networks in Urban Environments via Cache Enabled RSUs", Saeid Akhavan Bitaghsir., Dr. Ahmad Khonsari, Journal of Telecommunication Systems.
2012	"VMH-DTN: A Vehicle Movements History based Routing Protocol for Delay Tolerant Networks", Saeid Akhavan Bitaghsir, Dr. Faramarz Hendessi.
2011	"An Intelligent Routing Protocol for Delay Tolerant Networks using Genetic Algorithm", LNCS Springer, Saeid Akhavan Bitaghsir, Dr. Faramarz Hendessi.
2008	"UI-AI3D 2008 Team Description", Saeid Akhavan Bitaghsir et. al., In the proceedings CD, RoboCup 2008, Suzhou, China.
2008	"UI-AI3D Development 2008 Team Description", Saeid Akhavan Bitaghsir et. al., In the proceedings CD, RoboCup 2008, Suzhou, China.
2008	"BamRescue 2008 Team Description", Arash Givchi, Nader Nikbakht, Saeid Akhavan, Dr.Zamanifar. In the proceedings CD, RoboCup 2008, Suzhou, China.

| 2007 | "UI-AI3D 2007 Team Description", Saeid Akhavan Bitaghsir et. al., In the proceedings CD, RoboCup 2007, Atlanta, USA. |
| 2007 | "UI-AI3D Development 2007 Team Description", Saeid Akhavan Bitaghsir et. al., In the proceedings CD, RoboCup 2007, Atlanta, USA. |

Teaching Experiences

Fall 2017	Computer Networks Lab, Lecturer, Department of Electrical & Computer Engineering, University of Tehran.
Winter 2016	Computer Networks, Lecturer, Department of Computer Engineering, University of Ashrafi Isfahani.
Winter 2016	Operating Systems Lab, Lecturer, Department of Computer Engineering, University of Ashrafi Isfahani.
Winter 2009	Algorithms Design. Teaching Assistant, Department of Computer Engineering, University of Isfahan.
Fall 2009	Theory of Languages and Automata. Teaching Assistant, Department of Computer Engineering, University of Isfahan.
Winter 2009	Discrete Mathematics. Teaching Assistant, Department of Computer Engineering, University of Isfahan.

Work Experiences

2013-2016	Team manager of " Security Research Center, National project, Library of Attacks, Threats and Vulnerabilities of Network Appliances", Iran Telecommunication Research Center (ITRC), Tehran, Iran.
2011-2014	Advisor of National Smart ID Card Project, Sharif University of Technology, Tehran, Iran.
2010-2011	Member of National Connected Vehicle Technology (CVT) Project, Sharif University of Technology, Tehran, Iran.
2009-2011	Member of National Security Operation Center (SOC) Project, Iran Systems and Automation Company (IRISA), Isfahan, Iran.
2012-now	researcher of Institute of Physics and Mathematics (IPM), Tehran, Iran.
2009-2010	Member of REM (Revenue Evaluation Management) and KM (Knowledge Management) Project, Iran Systems and Automation Company (IRISA), Isfahan, Iran.
2008-2009	Member of "Isfahan Iron Company PCS Project" Team, Iran Systems and Automation Company (IRISA), Isfahan, Iran.

Language Test Score

TOEFL score: 585 Paper-Based Test, 95 Internet-Based Test (10 Nov. 2010).

Also I have been in USA for one year as a research associate in 2016.

Research Experience

2012-2018	Research on Improving the Throughput of Vehicular Ad Hoc Networks, Advisor: Dr. A. Khonsari.
2011-2012	Research on Developing an Intelligent Routing Protocol for DTN Networks, Sharif University of Technology ,Advisor: Dr. F. Hendessi.
2010-2011	Research on Merging AI Planning and Semantic Web, SNLab, Sharif University of Technology, Advisor: Dr. M. Sadighi.
2010-2011	Research on Network Application Layer Threats and Countermeasures, Sharif University of Technology, Advisor: Dr. A. Nemaney Pour.
2009-2010	Research on Map Generating using Laser Sensor as a part of undergraduate thesis ,University of Isfahan. Advisors: Dr. Amir Hassan Monadjemi.
2008-2009	Research on Developing an Ontology-Based Recommender System, UI-AI Labs, University of Isfahan. Advisor: Dr. K. Zamanifar.
2007-2008	Research on Robot Motion and Trajectory Planning in 3D Soccer Simulation, UI-AI Team, UI-AI Lab, University of Isfahan. Advisor: Dr. M.R. Yazdchi.
2007-2008	Research on Cooperation and Collaboration Methods in 2D and 3D Soccer Simulation, Persis Team, UI-AI Lab, University of Isfahan. Advisor: Dr. K. Zamanifar.
2008-2009	Research on Developing an Expert TAC-SCM (Supply Chain Management) Agent, E-Commerce Lab, University of Isfahan. Advisor: Dr. Mohammad Ali Nematbakhsh.
2007-2008	Research on Designing Algorithms for ACM Programming, ACM-Lab, Department of Computer Engineering, University of Isfahan. Advisor: Dr. Ahmad Barani-Dastjerdi.
2008-2009	Research on Developing a Rescue Robot Agent for Robocup Virtual Rescue Simulation Competition, UI-AI Labs, University of Isfahan. Advisor: Dr. K. Zamanifar.

Computer skills

Simulation Environment	NS-2, Castalia, Opnet, Omnet++, Matlab, SUMO, MOVE, VanetMobiSim, Veins.
Programming Languages	C#, C++, Java, python.
Operaing System	Linux (Ubuntu, Fedora), Windows.
Database	SQL Server, MySQL.

References

1. Dr. Ahmad Khonsari, Department of Electrical and Computer Engineering, University of Tehran, Tehran, Iran, E-Mail: ak@ipm.ir.

2. Dr. Behrouz Touri, Electrical and Computer Engineering, University of San Diego, California, USA, E-Mail: btouri@eng.ucsd.edu.

3. Dr. Jason Marden, Electrical and Computer Engineering, University of Santa Barbara, California, USA, E-Mail: jrmarden@ece.ucsb.edu.

4. Dr. Amirali Baniasadi, Electrical and Computer Engineering, University of Victoria, Canada, E-Mail: amirali@ece.uvic.ca.

5. Dr. Mohammad Khansari, Faculty of New Sciences and Technologies, University of Tehran, Tehran, Iran, E-Mail: m.khansari@ut.ac.ir.