

# DR. MOHAMMAD KHANJARY

Last Update: April 1st, 2022

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Tehran, Iran | June 1st, 1980  
HOMEPAGE: <http://www.khanjary.com>  
GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=oWtnNcAAAAAJ&hl=en>  
RESEARCH GATE: <https://www.researchgate.net/profile/Mohammad-Khanjary>  
EMAIL: [khanjary @ srbiau.ac.ir](mailto:khanjary@srbiau.ac.ir), [m\\_khanjary @ yahoo.com](mailto:m_khanjary@yahoo.com)

## EDUCATION

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FEB. 2011 PhD. in COMPUTER ENGINEERING,  
OCT. 2017 Major: Software Systems  
**Science and Research Branch, Islamic Azad University**, Tehran, Iran  
Advisors: [Dr. Masoud Sabaei, Amirkabir University of Technology](#)  
[Prof. Mohammad Reza Meybodi, Amirkabir University of Technology](#)  
Thesis: “On Application of Percolation Theory and Cellular Learning Automata  
in Visual Sensor Networks”  
GPA: 18.71/20.00

OCT. 2006 Master of Science in INFORMATION TECHNOLOGY,  
AUG. 2009 Major: Computer Networks  
**Qazvin Branch, Islamic Azad University**, Qazvin, Iran  
Advisor: [Prof. Karim Faez, Amirkabir University of Technology](#)  
Thesis: “Designing a Route Guidance System Based on Wireless Sensor Networks”  
GPA: 18.07/20.00

SEP. 1998 Bachelor of Science in COMPUTER ENGINEERING,  
FEB. 2005 Major: Software Engineering  
**Amirkabir University of Technology**, Tehran, Iran  
Thesis: “E-Health: Application of Information Technology in Health and Medical Care”

## RESEARCH INTERESTS

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Computer Networks,  
Machine Learning,  
Mathematical Modelling,  
Algorithms,  
Intelligent Transportation Systems

## LANGUAGES

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PERSIAN: Mother tongue  
ENGLISH: Good  
IAUEPT: 780 / 1000 (11/11/2011)

## TAUGHT COURSES

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(Undergraduate): Fundamentals of Programming  
(Undergraduate): Advanced Programming  
(Undergraduate): Discrete Mathematics  
(Undergraduate): Data Structures  
(Undergraduate): Computer Networks

## SKILLS

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Programming: Python, R, C/C++, SQL Server  
Web Programming: HTML, CSS, PHP, JavaScript, MySQL  
Simulators: GloMoSim, VanetMobiSim, NS  
Certificates: Cisco ICND 1 & 2, ISMS Auditor  
Operating Systems: Windows, Linux  
Others: MATLAB, VMWare, L<sup>A</sup>T<sub>E</sub>X, MS Office (Word, Excel, PowerPoint, Visio, Project)

## WORK EXPERIENCE

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JUN. 2015 | [IRANIAN ASSOCIATION OF OFFICIAL EXPERTS,](#)  
PRESENT | Tehran, Iran  
*As an IT/ICT Official Expert of Justice*

AUG. 2010 | [THE CENTRAL BANK OF IRAN,](#)  
PRESENT | Tehran, Iran  
*As an IT Engineer*

FEB. 2010 | [SHAHR-E-QODS BRANCH, ISLAMIC AZAD UNIVERSITY,](#)  
JUL. 2012 | Tehran, Iran  
*As an Instructor*

JUL. 2009 | [KARAJ BRANCH, ISLAMIC AZAD UNIVERSITY,](#)  
JUL. 2010 | Karaj, Iran  
*As an Instructor*

FEB. 2005 | [CENTURY 21 OF PERSIA, A PRIVATE CONSTRUCTIONAL COMPANY,](#)  
OCT. 2006 | Tehran, Iran  
*As Public Relation and Contracts Manager*

## HONORS

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JAN. 2011 | Admitted as a top student in Ph.D. degree of Computer Engineering  
at [SCIENCE AND RESEARCH BRANCH, ISLAMIC AZAD UNIVERSITY](#)

SEP. 2010 | 2nd rank between alumni of M.Sc. Computer Networks  
at [QAZVIN BRANCH, ISLAMIC AZAD UNIVERSITY](#)

### JOURNALS

3. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
[Elsevier] **Computers and Electrical Engineering**, [ISI, Impact Factor<sup>(2020)</sup>: 3.818]  
*Vol. 72C, November 2018, pp. 859-876.*  
“Barrier Coverage in Adjustable-Oriented Directional Sensor Networks: A Learning Automata Approach,”  
DOI: [10.1016/j.compeleceng.2018.01.009](https://doi.org/10.1016/j.compeleceng.2018.01.009)
2. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
[Elsevier] **Journal of Network and Computer Applications**, [ISI, Impact Factor<sup>(2020)</sup>: 6.281]  
*Vol. 57, November 2015, pp. 169-181.*  
“Critical Density for Coverage and Connectivity in Two-Dimensional Fixed-Oriented Directional Sensor Networks Using Continuum Percolation,”  
DOI: [10.1016/j.jnca.2015.08.010](https://doi.org/10.1016/j.jnca.2015.08.010)
1. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
**IEEE Sensors Journal**, [ISI, Impact Factor<sup>(2020)</sup>: 3.301]  
*Vol. 14, No. 8, August 2014, pp. 2856-2863.*  
“Critical Density for Coverage and Connectivity in Two-Dimensional Aligned-Oriented Directional Sensor Networks Using Continuum Percolation,”  
DOI: [10.1109/JSEN.2014.2319451](https://doi.org/10.1109/JSEN.2014.2319451)

### CONFERENCES

11. MOHAMMAD KHANJARY,  
**5th International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC)**,  
*November 2021, pp. 229-238.*  
“Cellular Learning Automata: Review and Future Trend,”  
DOI: [10.1007/978-981-16-9573-5](https://doi.org/10.1007/978-981-16-9573-5)
10. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
**2nd [Elsevier] International Conference on Computer Science and Computational Intelligence (ICCS CI)**,  
*Bali, Indonesia, October 2017, pp. 548-555.*  
“Critical Density in Adjustable-Oriented Directional Sensor Networks Using Continuum Percolation,”  
DOI: [10.1016/j.procs.2017.10.054](https://doi.org/10.1016/j.procs.2017.10.054)
9. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
**15th IEEE Electro/Information Technology Conference (EIT)**,  
*DeKalb, IL, USA, May 2015, pp. 478-483.*  
“A Percolation Algorithm for Directional Sensor Networks,”  
DOI: [10.1109/EIT.2015.7293432](https://doi.org/10.1109/EIT.2015.7293432)
8. MOHAMMAD KHANJARY, MASOUD SABAEI, MOHAMMAD REZA MEYBODI,  
**15th IEEE Electro/Information Technology Conference (EIT)**,  
*DeKalb, IL, USA, May 2015, pp. 478-483.*  
“A Percolation Algorithm Based on Cellular Automata,”  
DOI: [10.1109/EIT.2015.7293431](https://doi.org/10.1109/EIT.2015.7293431)

7. MOHAMMAD KHANJARY,  
**14th IEEE International Symposium on Computational Intelligence and Informatics (CINTI)**,  
*Budapest, Hungary, November 2013, pp. 249-253.*  
 “Using game theory to optimize traffic light of an intersection,”  
 e DOI: [10.1109/CINTI.2013.6705201](https://doi.org/10.1109/CINTI.2013.6705201)
  
6. MOHAMMAD KHANJARY, HAMIDREZA NAVIDI,  
**3rd World Conference on Information Technology (WCIT)**,  
*Barcelona, Spain, November 2012, pp. 1163-1168.*  
 “Optimizing Traffic Light of an Intersection by using Game Theory,”
  
5. MOHAMMAD KHANJARY, SEYYED MOHSEN HASHEMI,  
**6th IEEE/ACM Euro-American Conference on Telematics and Information Systems, (EATIS)**,  
*Valencia, Spain, May 2012, pp. 269-275.*  
 “Route Guidance Systems: Review and Classification,”  
 DOI: [10.1145/2261605.2261646](https://doi.org/10.1145/2261605.2261646)
  
4. MOHAMMAD KHANJARY, KARIM FAEZ, MOHAMMAD REZA MEYBODI, MASOUD SABAEI,  
**74th IEEE Vehicular Technology Conference (VTC2011-Fall)**,  
*San Francisco, CA, USA, September 2011, pp. 1-6.*  
 “PersianGulf: An Autonomous Combined Traffic Signal Controller and Route Guidance System,”  
 DOI: [10.1109/VETEFCF.2011.6092889](https://doi.org/10.1109/VETEFCF.2011.6092889)
  
3. MOHAMMAD KHANJARY, KARIM FAEZ, MOHAMMAD REZA MEYBODI, MASOUD SABAEI,  
**24th IEEE Canadian Conference on Electrical and Computer Engineering (CCECE)**,  
*Niagara Falls, Ontario, Canada, May 2011, pp. 000882-000886.*  
 “Shortest Paths in Synchronized Traffic-Light Networks,”  
 DOI: [10.1109/CCECE.2011.6030584](https://doi.org/10.1109/CCECE.2011.6030584)
  
2. KARIM FAEZ, MOHAMMAD KHANJARY,  
**22nd IEEE International Conference on Systems, Man and Cybernetics (SMC)**,  
*San Antonio, TX, USA, October 2009, pp. 4170-4174.*  
 “UTOSPF with Waiting Time for Green Light Consideration,”  
 DOI: [10.1109/ICSMC.2009.5346709](https://doi.org/10.1109/ICSMC.2009.5346709)
  
1. KARIM FAEZ, MOHAMMAD KHANJARY,  
**5th [IEEE] International Symposium on Wireless Communication Systems (ISWCS)**,  
*Reykjavik, Iceland, October 2008, pp. 558-562.*  
 “UTOSPF: A Distributed Dynamic Route Guidance System Based on Wireless Sensor Networks and Open Shortest Path First Protocol,”  
 DOI: [10.1109/ISWCS.2008.4726118](https://doi.org/10.1109/ISWCS.2008.4726118)