

Alireza Mohammadinodooshan

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RESEARCH INTERESTS

- Data mining
- Informatics in finance and business
- Deep learning
- Optimization and metaheuristic algorithms
- Formal analysis of computer security protocols
- VANET broadcast storm mitigation techniques

EDUCATION

- M.Sc. in Information Technology Engineering (secure communication major), K.N.Toosi University of Technology, Tehran, Iran, 2008 (with highest honours), GPA: 18.37/20
- B.Sc. in Computer Engineering (software engineering major), Isfahan University of Technology, Isfahan, Iran, 2005, GPA: 15.51/20 (Average GPA of classmates: 14.01/20)
- Diploma in Mathematics and Physics Discipline, Markar High School, Yazd, Iran, 2001, GPA: 18.47/20

HONORS AND AWARDS

- Ranked 1st among all M.Sc. graduated students of Information Technology, K.N.Toosi University of Technology, 2008
 - A member of the Iran's National Elites Foundation (2009-now)
 - A member of the K.N.Toosi University of Technology Exceptional Talents Society (2009)
 - Chosen as the top ranking instructor in the computer engineering department of Vali-e-Asr University of Rafsanjan (2014 - 2016)
 - My papers in ICNRAECE 2016 and CNTECE 2014 were selected as the best poster papers of the conferences (2014, 2016)
 - My paper in the CSICC2008 was selected as the best paper of the security track of the conference (2008)
 - Full grant for M.Sc. research, Iran Telecommunication Research Center (2006)
 - Reviewer of the ISECURE journal (2009-now)
 - My BS and MS universities are ranked among the top 800 universities in the world based on the Times Higher Education World University Rankings 2016-2017
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Publications

1. Amin Mohammadali, Mohammad Sayad Haghghi, Mohammad Hesam Tadayon, and Alireza Mohammadi Nodooshan, A novel identity-based key establishment method for advanced metering infrastructure in smart grid, IEEE Transactions on Smart Grid (2016). Status: [published](#), language: English, type: ISI ranked journal
2. Parisa Mashayekhi, Shoja Ghorbani-Dashtaki, Mohammad Reza Mosaddeghi, Hossein Shirani, and Ali Reza Mohammadi Nodoushan, Different scenarios for inverse estimation of soil hydraulic parameters from double-ring infiltrometer data using hydrus-2d/3d, International Agrophysics 30 (2016), no. 2, 203-210. Status: [published](#), language: English, type: ISI ranked journal
3. Alireza Mohammadinodooshan, Mina Niknafs, Adaptive Broadcasting of Safety Messages in VANET Communications, 1st International Conference on New Research Achievements in Electrical and Computer Engineering (ICNRAECE), Tehran, Iran (2016). Status: [accepted](#), language: English, type: International conference
4. Mohammad Dehghani Saryazdi, Alireza Mohammadi-Nodooshan, and Damoon Dehghan, Predicting Input Voltages to Adjust Angle and Velocity of Robot Joints Using Neural Networks, Multi Objective Decision Making Analysis and Fuzzy Clustering, IIOAB journal 7 (2016), 539-544. Status: [published](#), language: English, type: ISI ranked journal
5. Mehdi Nazemi Ardakani, Vahid Zare Mehrjardi, Alireza Mohammadinodooshan, A Firms' prediction model based on selected industries by using decision trees model, the Property Management and Financing journal, 2017 Status : [final accepted](#), language: Persian, type: national journal
6. Mehdi Nazemi Ardakani, Vahid Zare Mehrjardi, Alireza Mohammadinodooshan, A Model for Financial Distress Prediction of Some of the National Companies Using Random Forests and Decision Trees, the Financial Engineering journal Status: [submitted](#), language: Persian, type: national journal
7. Mehdi Nazemi Ardakani, Vahid Zare Mehrjardi, Alireza Mohammadinodooshan, Investigating the Effectiveness of KNN in Bankruptcy Prediction of Some of the National Companies by Dividing Them Based on Their Industries, the Financial Management Strategies journal Status: [submitted](#), language: Persian, type: national journal
8. Mohammad Mohammadinodooshan, Ali Asghar Ghadimi, Abolfazl Salami, Hamid Reza Alirezaei, and Alireza Mohammadi-Nodooshan, Coordinated reconfiguration and voltage control for increasing the allowable distributed generation penetration using modified binary particle swarm optimization, Indian Journal of Science and Technology 8 (2015) Status: [published](#), language: English, type: ISI ranked journal

9. Alireza Mohammadinodooshan, Abbas Shahmoradi, Comparing the Efficiency of Some of the Broadcast Storm Mitigation Techniques, Second National Conference on New Technologies in Electrical and Computer Engineering (CNTECE), 2014
Status: [published](#), language: Persian, type: national conference
10. Alireza Mohammadinodooshan, Abbas Shahmoradi, A New Protocol for Mitigating the Broadcast Storm Problem in VANETs, Second National Conference on New Achievements in Electrical and Computer Engineering, 2015
Status: [published](#), language: Persian, type: national conference
11. Ghazal Farrokhi, Kaan Bur, Maria Kihl, Alireza Mohammadi-Nodooshan, and Saadan Zokaei, A survey and taxonomy of broadcast algorithms for message dissemination in vehicular ad hoc networks, in preparation (2013), 1-28.
[Status: ...](#), language: English
12. Mohammad Sayad Haghghi, Kamal Mohamedpour, Vijay Varadharajan, and Alireza Mohammadi-Nodooshan, Overhearing Gain Analysis in low-traffic CDMA Wireless Sensor Networks, Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC), 2010 IEEE International Conference on, IEEE, 2010, pp. 89-94.
Status: [published](#), language: English, type: IEEE conference
13. A Mohammadi-Nodooshan, Y Darmani, R Jalili, M Nourani, and M Sayad Haghghi, A robust and efficient sip authentication scheme, Scientia Iranica Transaction D: Computer Science and Engineering 17 (2010), no. 1, 25-38.
Status: [published](#), language: English, type: ISI ranked journal
14. Alireza Mohammadi-nodooshan, Yousef Darmani, Rasool Jalili, and Mehrdad Nourani, A Robust and Efficient Sip Authentication Scheme, 13th International CSI Computer Conference(CCICC2008), Springer Berlin Heidelberg, 2009, pp. 551-558.
Status: [published](#), language: English, type: international conference

TEACHING EXPERINCES

1. An introduction to datamining (in the last term at Vali-e-Asr university, Rafsanjan, Iran(VRU))
2. Data structures and algorithms (for 2 terms at VRU)
3. Database (for 2 terms at VRU)
4. Database design (for 2 terms at VRU)
5. Internet engineering (for 3 terms at VRU and 2 terms at Yazd University, Yazd, Iran(YU))
6. Information technology engineering-I (for 2 terms at VRU)
7. Advanced programming (for 2 terms at VRU and 1 term at Art and Science University, Yazd, Iran(ASU))
8. Fundamentals of programming (for 1 term at ASU)
9. Programming languages (for 1 terms at ASU)
10. Computer Networks (for 2 terms at YU)

11. Web designing (for 2 terms at YU)

Certificates : [VRU1](#),[VRU2](#),[YU](#),[ASU](#)

PROFESSIONAL EXPERINCES

- Fulltime academic board member and lecturer of the computer engineering group of Vali-e-Asr University, Rafsanjan, Iran (2013- now)
- Reviewer of the ISECURE journal (2009 - now)
- Lecturer at Yazd University, Yazd, Iran (2009 - 2013)
- Part-time Lecturer at Art and Science University, Yazd, Iran (2010 - 2012)
- Part-time PHP and Java developer at Mehravaran Corporation, Yazd, Iran (2008 - 2013)

SKILLS

- Languages: Persian(native), English (fluent specially in reading and writing), Arabic (just reading skills)
- Programming and scripting: C, C++, Java, C#, Html, JavaScript, PHP, Python, Shell scripting, Sql, HLPSSL, Matlab
- DB and Frameworks: AVISPA, MySQL, Sql-server, Java Cryptography Extension (JCE), Scikit-learn, Django

REFERENCES

- [Mohammad Sayad Haghghi , Assistant professor, Department of Computer and Electrical Engineering , University of Tehran , Tehran](#)
Email: Sayad[at]ut.ac.ir
- [Azar Shahgholian, Senior Lecturer in Digital Marketing, Teesside University, Middlesbrough, UK](#)
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- [Yousef Darmani, Assistant Professor, Electrical & Computer Engineering Faculty, K. N. Toosi University of Technology, Tehran, Iran](#)
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- [Mahdi Nazemi Ardakani,Assistant Professor of Accounting, Faculty of Economics, Management and Accounting, Yazd University, Yazd, Iran](#)
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