

# Mohammad GhasemiGol

Computer Engineering Department  
University of Birjand  
South Khorasan Province, Birjand, A78, 97175615

E-mail: [ghasemigol@wali.um.ac.ir](mailto:ghasemigol@wali.um.ac.ir)  
E-mail: [ghasemigol@birjand.ac.ir](mailto:ghasemigol@birjand.ac.ir)  
Phone-number: +98 915 962 0831

## Research Interests

- Network Security
- Intrusion Detection Systems
- Alert Management and Response Systems
- Privacy Preserving
- Insider Threat Detection
- Data Mining & Pattern Recognition
- Fuzzy Clustering & Classification

## Education

- **Ferdowsi University of Mashhad** Mashhad, Iran  
PhD. in Computer Engineering (GPA: 19/20) 2010–2016  
PhD. Comprehensive Exam Grade: 19.23/20
- **University of North Texas** Denton, TX, USA  
Research Assistant 2014–2015  
The Information Security & Privacy:Interdisciplinary Research and Education Lab
- **Ferdowsi University of Mashhad** Mashhad, Iran  
M.Sc. in Computer Engineering (GPA: 18.48/20) 2007–2009
- **Payame Noor University** Birjand, Iran  
B.Sc. in Computer Engineering (GPA: 17.49/20) 2002–2006

## Awards & Honours

- Admission for Research Assistant in University of North Texas
- Admission for PhD studies in Ferdowsi University of Mashhad without taking entrance exam. (Talented Student Award)
- Ranked 3th , in cumulative GPA among all M.Sc. students of Computer Engineering, 2007 beginners, Ferdowsi University of Mashhad.
- Ranked 187th among about 20,000 software engineering B.Sc. graduates in Iran master of science entrance exam, 2007.
- Ranked 1th , in cumulative GPA among all B.Sc. students of Computer Engineering, 2002 beginners, Payame Noor University.

## Research Experience

- Research Assistant in the Data & Communication Security Lab. Supervisor: [Prof. A. Ghaemi Bafghi](#).
  - I am currently doing researches on Alert Management and Response Systems
- Research Assistant in the The Information Security & Privacy:Interdisciplinary Research and Education Lab. Supervisor: [Prof. H. Takabi](#).
- Research Assistant in the Pattern Recognition Lab. Supervisor: [Prof. H. Sadoghi Yazdi](#).

**• Journal Publications:**

- Mohammad GhasemiGol, Hassan Takabi, and Abbas Ghaemi-Bafghi, "A foresight model for intrusion response management", *Computers & Security*, vol. 62, pp. 73-94, 2016.
- Mohammad GhasemiGol, Abbas Ghaemi-Bafghi, and Hassan Takabi, "A comprehensive approach for network attack forecasting", *Computers & Security*, vol. 58, pp. 83-105, 2016.
- Mohammad GhasemiGol, Abbas Ghaemi-Bafghi, "E-correlator: an entropy-based alert correlation system", *Security and Communication Networks*, vol. 8, no. 5, pp. 822836, 2015.
- Mohammad GhasemiGol, Abbas Ghaemi Bafghi, Mohammad Hossein Yaghmaee Moghaddam, Hadi Sadoghi Yazdi, "Anomaly detection and foresight response strategy for wireless sensor networks", *Wireless Networks*, pp. 1-18, 2015.
- Hadi Sadoghi Yazdia, Mohammad GhasemiGol, Sohrab Effati, Azam Jiriani and Reza Monsefi, "Hierarchical tree clustering of fuzzy number", *Journal of Intelligent & Fuzzy Systems* 26, pp. 541550, 2014.
- Mohammad GhasemiGol, Reza Monsefi, and Hadi Sadoghi Yazdi, "Intrusion Detection by Ellipsoid Boundary", *Journal of Network and Systems Management*, Springer US, Volume 18, Number 3, 265-282 September 2010.
- Mohammad GhasemiGol, Hadi Sadoghi Yazdi, Reza Monsefi, "A New Hierarchical Clustering Algorithm on Fuzzy Data (FHCA)". *International Journal of Computer and Electrical Engineering (IJCEE)*, Volume 2, Number 1, pp. 153-160, February 2010.
- Mohammad GhasemiGol, Mostafa Sabzekar, Hossein Deldari, Amir-H Bahmani, "A Linda-based Hierarchical Master-Worker Model". *International Journal of Computer Theory and Engineering (IJCTE)*, Volume 1, Number 5, pp. 553-559, December 2009.

**• Conference Publications:**

- Yassir Hashem, Hassan Takabi, Mohammad GhasemiGol, Ram Dantu, "Towards Insider Threat Detection Using Psychophysiological Signals", 7th ACM CCS International Workshop on Managing Insider Security Threats , Denver, Colorado, USA, 2015.
- Mohammad GhasemiGol, Abbas Ghaemi-Bafghi, "A New Alert Correlation Framework Based on Entropy", *The 3rd International eConference on Computer and Knowledge Engineering (ICCKE 2013)* , Mashhad, Iran, 2013.
- Mohammad GhasemiGol, Reza Monsefi, and Hadi Sadoghi Yazdi, "Intrusion Detection by New Data Description Method", *The 1st International Conference on Intelligent Systems, Modelling and Simulation (ISMS2010)*, Liverpool, UK, 2010.
- Mohammad GhasemiGol, Mostafa Sabzekar, Reza Monsefi, Mahmoud Naghibzadeh and Hadi Sadoghi Yazdi, "A New Support Vector Data Description with Fuzzy Constraints", *The 1st International Conference on Intelligent Systems, Modelling and Simulation (ISMS2010)*, Liverpool, UK, 2010.
- Mohammad GhasemiGol, Reza Monsefi, and Hadi Sadoghi Yazdi. "Ellipse Support Vector Data Description". *EANN 2009*, Springer, CCIS 43, pp. 257268, 2009.
- Mohammad GhasemiGol, Mostafa Sabzekar, Reza Monsefi, Hadi Sadoghi Yazdi. "A New Tree Clustering Algorithm for Fuzzy Data Based on Alpha-cuts", *WORLDCOMP'09 - The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing*, Las Vegas, Nevada, USA. *Proceedings of The 2009 International Conference on Artificial Intelligence (ICAI'09)*, Volume 1, pp. 210216, 2009.
- Mostafa Sabzekar, Mohammad GhasemiGol, Mahmoud Naghibzadeh, Hadi Sadoghi Yazdi. "Improved DAG SVM: A New Method for Multi-Class SVM Classification". *WORLDCOMP'09 - The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing*, Las Vegas, Nevada, USA. *Proceedings of The 2009 International Conference on Artificial Intelligence (ICAI'09)*, Volume 2, pp. 548-553, 2009.
- Mohammad GhasemiGol, Hadi Sadoghi Yazdi, Reza Monsefi. "Fuzzy Linkage: A New Hierarchical Clustering Fuzzy Algorithm". *2th Joint Congress on Intelligent and Fuzzy Systems (ISFS2008)*, Tehran, Iran, 2008.

## Review Experiences

- Applied Soft Computing
- Journal of Network and Computer Applications
- KSII Transactions on Internet and Information Systems
- Journal of Computing and Security
- Information Security Journal: A Global Perspective
- IET Communications
- The International eConference on Computer and Knowledge Engineering (ICCKE)
- The International ISC Conference on Information Security and Cryptology
- IEEE International Conference on Trust, Security and Privacy in Computing and Communications
- The International Conference on Future Internet of Things and Cloud

## Teaching Experiences

- Lecturer of Advanced Topics in Network Security, MSc Course, Azad University of Birjand.
- Lecturer of Advanced Network, MSc Course, Azad University of Birjand.
- Lecturer of Advanced Operating Systems, MSc Course, Azad University of Birjand.
- Teaching Assistant of Pattern Recognition, MSc Course, under supervision of Prof. H. Sadoghi Yazdi, Ferdowsi University of Mashhad.
- Teaching Assistant of Advanced Topics in Network Security, MSc Course, under supervision of Prof. A. Ghaemi Bafghi, Ferdowsi University of Mashhad.
- Lecturer of Computer Network, BSc Course, Payame Noor University, Birjand & Qaen, Iran.
- Lecturer of Data Base, BSc Course, Payame Noor University, Birjand & Qaen, Iran.
- Lecturer of Data Structure, BSc Course, University of Birjand, Qaen branch, Iran.
- Lecturer of Advanced programming, BSc Course, University of Birjand, Qaen branch, Iran.

## Skills

- **Languages:** Persian, English
- **Programming Languages and Frameworks:** C/C++, C#, Delphi, MATLAB, .NET.
- **Type Settings:** L<sup>A</sup>T<sub>E</sub>X, Microsoft Office.
- **Operating Systems:** Windows, Linux.