

# MASIH ABEDINI

ICT Organization of Isfahan Municipality  
Network and Data Center Department, Isfahan, Iran

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<https://scholar.google.com/citations?user=83A2R0AAAAAJ&hl=en>

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## EDUCATION

- **M.Sc. Electrical Engineering - Communication (Network)** 2009-2012  
Dept. of Electrical & Computer Engineering, Isfahan University of Technology,  
Isfahan, Iran  
**GPA:** 16.31/20  
**Supervisor:** R.I.P Dr. Mehdi Berenjkoub  
**Thesis Title:** Anomaly Detection in AODV
- **B.Sc. Electrical Engineering - Communication** 2004-2009  
Dept. of Electrical Engineering, Islamic Azad University- Najafabad Branch,  
Najafabad, Isfahan, Iran  
**GPA:** 16.87/20

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## RESEARCH INTERESTS

- Mobile Ad-hoc Networks
- Internet of things
- Intrusion Detection Systems
- Software Defined Networks
- Network Security
- Machine and Deep Learning
- Cognitive Radio Networks
- Blockchain Technology

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## SOME UNDERGRADUATE COURSES

- **Islamic Azad University – Najafabad Branch**
  - Electronics III (18.5/20)
  - Microcontrollers (20/20)
  - Fields and Waves (18.5/20)
  - Communication Systems I (20/20)
  - Communication Systems II (17.5/20)
  - Electrical Machines I (18.5/20)

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## GRADUATE COURSES

- **Isfahan University of Technology**
    - Advanced Computer Networks
    - Cryptography
    - Network Lab I
    - Network Lab II
    - Network Management
    - Network Security
    - Seminar
    - Stochastic Process (Discrete)
    - Wireless Communication Networks
  - **Independent Coursework**
    - Linear and Integer Programming (Uni. of Colorado Blvd. - coursera.org)
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WORK  
EXPERIENCES

- **ICT Organization of Isfahan Municipality, Isfahan, Iran** May2014- present  
Data Center & Network Engineer, Data Center and Network Dep.  
  
Configuring and designing computer networks for the data center are my major responsibilities in the organization.
- **Network and System Group, Isfahan University of Technology, Isfahan, Iran** Apr2012- Apr 2014  
Research Assistant  
Project: Analysis and Improvement of Survivability in MANETs  
  
My responsibility was to survey and design an intrusion detection system in MANETs, as detecting threats is a key factor for survivable networks.
- **APA-IUTcert, Isfahan University of Technology, Isfahan, Iran** Sep2012- May2013  
Researcher at R&D Department as a volunteer  
Project: Statistical Distributed Intrusion Detection System (SDIDS)  
  
APA-IUTcert is an Academic Computer Emergency Response Team. My responsibility was to design algorithms to detect anomaly in a network backbone, mainly using statistical methods.

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PUBLICATIONS

- **Journal Papers:**
  - A. Jamali, S.M.S. Hemami, M. Berenjkoub, H. Saidi, **M. Abedini**, "A High Throughput Device-to-Device Wireless Communication System," *IEICE Transactions on Information and Systems*, 2019.
  - F. Afghah, B. Cambou, **M. Abedini**, S. Zeadally, "A ReRAM Physically Unclonable Function (ReRAM PUF)-based Approach to Enhance Authentication Security in Software Defined Wireless Networks," *International Journal of Wireless Information Networks* (Publisher: US Springer), 2018.
- **Conference Papers:**
  - M.K.H. Zarch, **M. Abedini**, M. Berenjkoub, A. Mirhosseini, "*An Unsupervised Anomaly Detection Engine With an Efficient Feature set for AODV*," ISCISC'13, 2013, Yazd, Iran.
  - **M. Abedini**, M. Berenjkoub, "*A Novel Approach Anomaly Detection in MANETs using Hidden Markov Model*," ISCISC'12, 2012, Tabriz, Iran (in Persian).

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TEACHING  
EXPERIENCE

- **Network Lab I, Teaching Assistant** Spring 2011  
Presented by: Dr. Ali Fanian, ECE Dep., Isfahan University of Technology
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COMPUTER  
SKILLS

- **Programming Languages:** MATLAB, C/C++, Perl, Python
- **Network Simulation:** NS-2, NS-3, OPNET
- **Network Management :** Solarwinds Engineering Toolset, Wireshark
- **Network and Data Center Devices, Certification, and tools:** Cisco Switches & Routers (CCNA), HPE Servers, MikroTik (MTCNA), Penetration Test (CEH)
- **OS:** MCSA Windows Server 2012, Linux (LPIC-1)
- **General Tools:** Microsoft Office, Microsoft Visio, EndNote, VMware Workstation, LaTeX

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LANGUAGES  
SKILLS

- **English:** IELTS Academic: Overall=6.5 (L=6.0, R=7.5, W=6.0, S=6.0) (TestDate= 14/02/2019)  
GRE: Q=156, V=152, AW=3 (TestDate = 20/12/2014)  
TOEFL: 90 (R=28, L=22, S=19, W=21) (TestDate = 18/08/2014)
- **Persian:** Native language

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HONORS

- Ranked among top 5% in the Iranian National University Graduate Entrance Examination (among almost 15000 participants), 2009
- Iran Telecommunication Research Center (ITRC) Research Grant, awarded to my M.Sc. thesis, 2012

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PROFESSIONAL  
MEMBERSHIP

- IEEE Graduate Student Member *2010- Present*

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REFERENCES

- **Dr. Amin Jamali**  
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**Assistant Professor**  
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