

Mahsa Shafaei

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EDUCATION

MSc, Information Technology Engineering 2011-2013

Sharif University of Technology, Tehran, Iran

Thesis: “Modeling Information Cascade in Social Network with Positive and Negative Link”

Average: 18.01/20 – Equivalent GPA¹: 4/4 (Thesis: 19.3/20)

BSc, Information Technology Engineering 2007-2011

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

Thesis: “Web Spam Detection”

Average: 17.98 – Equivalent GPA: 3.8/4 (Thesis: 20/20)

RESEARCH INTEREST

- Computer Network
- Network Security
- Data Mining
- Artificial Intelligence

PUBLICATIONS

- M. Shafaei, M. Jalili. “Community Structure and Information Cascade in Signed Networks”. New Generation Computing, 32(3-4), 257-269.
- S. Deldari, M. Shafaei, S. Khadivi. “Propose New Approach for Web Spam Detection: Link-based and content-based”. 18th National CSI Computer Conference. Tehran, Sharif University, 2013 [in Persian].

SELECTED COURSES

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|--|---------|------------------------------|----------|
| • Advanced Network (MSc) | 19/20 | • Artificial Intelligence | 17/20 |
| • Interconnection Network (MSc) | 17/20 | • Graph Theory (BSc) | 20/20 |
| • Advanced Data mining (MSc) | 17.3/20 | • Design of Algorithms (BSc) | 19.25/20 |
| • Network Security (MSc) | 17.2/20 | • Data Mining (BSc) | 19.8/20 |
| • Network Management (MSc) | 17.0/20 | • Computer Networks (BSc) | 16.7/20 |
| • Modeling and Analysis of Computer Networks | 17.6/20 | • Information Security (BSc) | 17.5/20 |

¹Converted to the US GPA using foreign credits translation and evaluation website (www.foreigncredits.com)

SKILLS

- C, C++, Java programing
- SQL Programming
- Java script programing
- Linux Programing
- Weka& RapidMiner (Datamining)
- Wireshark
- Matlab
- LaTeX

HONORS

- **Ranked the 1st** top student in BSc in Information Technology Engineering, Amirkabir University of Technology, 2011.
- **Ranked 1st** among about 40 Mathematics and Physics pre-university college students Emam Sadegh High School Pre-University College, Isfahan, Iran, 2007.
- **Ranked 890th** in the field of Mathematics and Physics in the 2007 Nationwide Universities Entrance Exam among almost 450,000 participants.
- **Ranked 3th** among High School Student in the Isfahan Robocup , 2005.

WORK EXPERIENCES

- Java Programmer in Card Management System team at Fanap Co, 2014-present
- Research assistant in the DNS (Data and Network Security) lab at Sharif University of Technology, 2013-2014
- Teaching, “Networks Lab”, Amirkabir University of Technology, 2012.
- Researcher and programmer in the ICT Search Engine project, 2010.
- Teaching assistant, “Data Mining”, Dr. Khadivi, 2010.
- Undergraduate apprenticeship in MAGFA company, working on Business Intelligence and Data Warehousing

PROJECTS AND ACTIVITIES

- Research project about low interaction and high interaction Honeypot
- Analyzing of TCP/IP protocol for implementation of low interaction Honeypot
- Propose and implement Bayesian model for users command history in Linux
- Research project about fraud detection , analyze and solve problem by various data mining algorithms
- Implementation of:
 - Puzzle by intelligent algorithm
 - Secure chat software with security mechanisms and different encryption algorithms
 - Different data structures like linked lists, B +tree, Tries, extendible hash.