# Mohsen Abbasi

## Personal Data

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|---|---|
| Place and Date of Birth: | Iran, 1989 |
| Address: | Department of Computer Engineering |
| | Sharif University of Technology |
| Phone: | +98 (936) 5429650 |
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| Homepage: | http://ce.sharif.edu/ mabbasi |

## Education

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|---|---|
| September 2013 | M.Sc. in Computer Engineering, **Sharif University of Technology** |
| | Major: Algorithms And Computations |
| | Thesis: "*Online Unit Clustering In Two Dimensions*" |
| | Advisor: Prof. Hamid Zarrabi-zadeh | GPA: 16.32/20 |
| | Detailed List of Courses |
| September 2011 | B.Sc. in Computer Engineering, **Iran University of Science and Technology** |
| | Major: Software Engineering |
| | Thesis: "*Algorithmic Mechanism Design For Peer To Peer Networks*" |
| | Advisors: Profs. Morteza AnaLoui, Mohammad R. Kangavari | GPA: 15.17/20 |
| | Detailed List of Courses |
| September 2006 | High school Diploma at **National Organization for Development of Exceptional Talents** |
| | Major: Mathematics and Physics |
| | GPA: 18.72/20 |

## Research Interests

- Randomized and Approximation Algorithms
- Computational Geometry
- Online Algorithms
- Game Theory and Mechanism Design
- Databases
- Computer Networks

## Scholarships and Certificates

- Ranked top 0.05% among all applicants for M.Sc. Nationwide University Entrance Exam (approximately 30000 applicants), 2011.

- Recieved the direct-entrance fellowship for M.Sc. program of Iran University of Science and Technology with High GPA, 2010.

- Ranked top 0.5% among all applicants for B.Sc. Nationwide University Entrance Exam (approximately 500000 applicants), 2006.

# Experience

## 5.1 Research Experience

*Fall 2012-Fall 2014* | Under the supervision of Prof. Hamid Zarrabi-zadeh
Online Unit Clustering and Covering Problem
Direction and Range Assignment for Directional Antennae in Wireless Networks

*2011* | Under the supervision of Prof. Morteza AnaLoui
Publication: A New Model For Peer-to-Peer Networks To Improve Altruism Between Users

## 5.2 Work Experience

*October 2011- June 2012* | Database Designer and Developer at Sepanta Inc, Tehran
Designed the database used for Kala Co's automation system. Worked as C# and ASP.Net programmer.

*June-Oct 2009* | Intern at Nasim Hamrah Inc, Tehran
Worked as c++ and Java Developer.

## 5.3 Teaching Experience

*Fall 2014* | Teaching Assistance of Design and Analysis of Algorithms, Sharif University of Technology.

# Publications

- Online Unit Clustering In Two Dimensions, Mohsen Abbasi, Hamid Zarrabi-Zadeh, AmirMahdi Ahmadinejad [to be submitted] (Download)

- Direction and Range Assignment for Directional Antennae in Wireless Networks, Mehdi Kharati-Zadeh, Mohsen Abbasi, Hamid Zarrabi-Zadeh [to be submitted] (Download)

- Mechanism Design for Single-Service Peer to Peer Networks, Mohsen Abbasi, Morteza AnaLoui (B.Sc. Thesis).

# Languages

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|---|---|
| English: | Fluent |
| | TOEFL score: Total: 105, reading: 26, Listening: 28, Speaking: 24, Writing: 27 |
| | GRE score: Verbal Reasoning: 151, Quantitative Reasoning:165, Writing: 3 |
| Persian: | Mothertongue |
| Spanish: | Basic Knowledge |
| Arabic: | Basic Knowledge |

## Technical Skills

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|---|---|
| *Programming Languages* | C++, Java, C#, HTML, Javascript, CSS, C, PHP, Python, CUDA, x86 Assembly |
| *Frameworks and Tools* | Microsoft Visual Studio, NetBeans, Eclipse, Microsoft SQL Server, ASP.NET, Microsoft Office, LaTeX, jQuery, Bootstrap, Visual Paradigm, CodeIgniter, OPNET, Clementine, Adobe Photoshop |
| *Database systems* | SQL, MS Sql Server, MySql, PostgreSql |
| *Operating systems* | Linux, Microsoft Windows |

## Courses

### M.Sc. in Computer Engineering

#### Grades

| Course | Grade | Credit |
|---|---|---|
| Advanced Algorithms | 15.6 | 3 |
| Computational Geometry | 17 | 3 |
| Performance Evaluation of Computers | 14.2 | 3 |
| Distributed Systems | 14 | 3 |
| Approximation Algorithms | 16 | 3 |
| Randomized Algorithms | 17 | 3 |
| Green Computing | 15.2 | 3 |
| Seminar | 19.6 | 2 |
| Thesis | 19.5 | 6 |

### B.Sc. In Computer Engineering

#### Grades

| Course | Grade | Credit |
|---|---|---|
| **Major Courses** | | |
| Information Storage and Retrieval | 17 | 3 |
| Database Design | 17.5 | 3 |
| Software Engineering | 16.1 | 3 |
| Data Structures | 17.5 | 3 |
| Algorithm Analysis and Design | 16.5 | 3 |
| Artificial Intelligence | 16.5 | 3 |
| Theory of Languages and Automata | 14.6 | 3 |
| Computer Networks | 19.6 | 3 |
| Thesis | 20 | 3 |
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| **Mathematics Courses** | | |
| General Mathematics 1 | 15 | 3 |
| General Mathematics 2 | 17 | 3 |
| Differential Equations | 14.75 | 3 |
| Statistics | 17.25 | 3 |