

# Marjan Ghazvininejad

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## Education

- 2009-2011**      **M.Sc. in Computer Engineering** (Artificial Intelligence), **Sharif University of Technology**, Tehran, Iran, GPA: 19.32/20 (Without Thesis)  
**Thesis Title:** Recognition of Human Activities by Using Machine Learning Methods  
**Supervisor:** Prof. Hamid R. Rabiee
- 2005-2009**      **B.Sc. in Computer Engineering, Sharif University of Technology**, Tehran, Iran, GPA: 18.82/20  
**Thesis Title:** Selection of adequate local features for face detection  
**Supervisor:** Prof. Hamid R. Rabiee
- 2004-2005**      **Pre University Certificate**, Farzanegan High School, National Organization for Developing Exceptional Talents, Tehran, Iran, GPA: 20/20
- 2001-2004**      **High School Diploma**, Farzanegan High School, National Organization for Developing Exceptional Talents, Tehran, Iran, GPA: 19.5/20

## Research Interest

- **Machine Learning**
- **Pattern Recognition**
- **Game Theory**
- **Discrete Mathematics (Graph Theory, Combinatorics, ...)**

## Awards and Honors

- 2011**      Ranked **2nd** According to GPA Among all M.Sc. Students of **Computer Engineering** (Artificial Intelligence) Program, in **Sharif University of Technology**
- 2009**      Recipient of the **Grant for Graduate Studies** from Iran's "**National Elites Foundation**", (The highest prestige and professional nation foundation for supporting elites)
- 2009**      Awarded Fellowship of **Exceptional Talent** for the **M.Sc.** Program in **Artificial Intelligence** from Computer Engineering Department of **Sharif University of Technology**
- 2009**      Ranked **1st** in Nationwide Graduate Entrance Exam among All Sub-disciplines of Computer Engineering among more than 30,000 participants  
Ranked **1st** in Software Engineering.  
Ranked **1st** in Algorithms and Computation.  
Ranked **2nd** in Artificial Intelligence.  
Ranked **6th** in Computer Architecture.
- 2009**      Ranked **2nd** in Final Round of national Scientific Students' Olympiad, Computer Engineering
- 2009**      Ranked **1st** According to GPA among All B.Sc. students of Computer Engineering in Sharif University of Technology
- 2008**      Recipient of the **Grant for Undergraduate Studies** from and **Membership** of Iran's "**National Elites Foundation**"
- 2005**      Achieving the **153th** rank in the **National University Entrance** Examination for the **B.Sc.** degree among more than 400,000 participants
- 2004**      **Silver medalist** (ranked **2rd**) in the **14th Iranian National Olympiad in Mathematics**. (Awarded by the President and Minister of Education)

## Publications

- Accepted**      M. Ghazvininejad, M. Mahdih, H. R. Rabiee, P. K. Roshan, and M. H. Rohban, " **Isograph: Neighbourhood Graph Construction Based On Geodesic Distance For Semi-Supervised Learning**", IEEE International Conference on Data Mining, 2011.

- M. Ghazvininejad, H. R. Rabiee, N. Pourdamghani, and P. K. Roshan, “**HMM Based Semi-Supervised Learning for Activity Recognition**”, International Workshop on Situation Activity and Goal Awareness, ACM International Conference on Ubiquitous Computing (UbiComp), 2011
- M.A. Fazli, K. Khodamoradi, M. Farajtabar, M. Ghazvininejad and M. Ghodsi, “**The Inefficiency of Equilibria in a Network Creation Game with Packet Forwarding**”, 35<sup>th</sup> International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM), 2009.
- Submitted** M. Mahdih, M. Ghazvininejad, H. R. Rabiee, and M. H. Rohban, "**Geodesic Distance for Graph Construction in Semi-Supervised Learning**", IEEE Transaction on Pattern Analysis and Machine Intelligence (PAMI).

### Interesting Courses Passed

<b>Artificial Intelligence</b>	Artificial Intelligence(20), Signals and Systems (20), Information Retrieval(20), Machine Learning (19.7), Stochastic Processes (20), Pattern Recognition (20), Neural Networks (20), Evolutionary Algorithms (19).
<b>Computer Science</b>	Data Structures (20), Design of Algorithms (19), Parallel Processing (18), Game Theory (20)
<b>Mathematics</b>	General MathII (20), Probability and Statistics (20), Numerical Methods(20), Engineering Mathematics(19), differential geometry(18.2)

### Teaching Experience

<b>2006-Present</b>	Teaching Special Topics in Mathematics and Informatics for high school students preparing to participate in National Olympiad in Informatics.
<b>Fall 2010</b>	Teaching Assistant of “ <b>Stochastic Processes</b> ” course in Sharif University of Technology (Prof. Hamid R. Rabiee)
<b>Fall2010</b>	Teaching Assistant of “ <b>Parallel Processing</b> ” course in Sharif University of Technology (Prof. Mohammad Ghodsi)
<b>Spring 2009</b>	Teaching Assistant of “ <b>Design and Analysis of Algorithms</b> ” course in Sharif University of Technology (Dr. Mohammad Ali Safari)
<b>Fall 2008</b>	Teaching Assistant of “ <b>Signals and Systems</b> ” course in Sharif University of Technology (Dr. Hossein Sameti)
<b>Spring 2008</b>	Teaching Assistant of “ <b>Design and Analysis of Algorithms</b> ” course in Sharif University of Technology (Prof. Mohammad Ghodsi)
<b>Fall 2007</b>	Teaching Assistant of “ <b>Discrete Structures</b> ” course in Sharif University of Technology (Dr. Hamid Mahini)
<b>Spring 2007</b>	Teaching Assistant of “ <b>Introduction to Programming</b> ” course in Sharif University of Technology (Mr. Ali Haj Abutalebi)

### Research Experience

<b>2009-Present</b>	Research Assistant in <b>Digital Media Lab, Sharif University of Technology</b> , <b>Supervisor:</b> Prof. Hamid R. Rabiee
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### Language Skills

- **Persian:** Native
- **English:** Fluent. TOEFL IBT 98, 2011
- **Arabic:** I can read Arabic