

# Seyed Mohsen Amiri

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## Objective

To pursue graduate studies in an international reputable research university.

## Education

**Sharif University of Technology, Tehran, Iran MS. In Computer Engineering , Artificial Intelligence (September 2004 - Expected to be graduate at June 2006)**

- Ms. GPA 17.08/20
- The Highest Marks in Discrete Signal Processing course.
- Thesis Title: Texture Change Detection In Color Images.  
Advisor : Dr Shohreh Kasaei
- GRE Scores : Q:780 , V :460

**IUT (Isfahan University of Technology), Isfahan, Iran BS. In Electrical Engineering , Communications ( September 2000 – June 2004 )**

- Full-Mark in Design and Analysis of Algorithms course.
- Full-Mark in Engineering Mathematics course.
- The Highest Marks in Computer Networks course.
- The Highest Marks in Electromagnetic course.

**Ajaee High School NODET (National Organization for Development of Exceptional Talents) , Isfahan , Iran**

- High School **Diploma**, Mathematics & Physics, June 2000

## Publications

- Arash Abadpour, Shohreh Kasaei, and S. Mohsen Amiri, "*Fast Registration of Remotely Sensed Images for Earthquake Damage Estimation*," EURASIP Journal on Applied Signal Processing, vol. 2006, Article ID 76462, 10 pages, 2006.
- Shohreh Kasaei, S. Mohsen Amiri, Arya Bassirnia, Pouya Mansouri, "New Fast and Robust Method to Approximate Affine-Transform Using Control Points", 2nd IEEE International Conference on Information and Communication Technologies: From Theory To Applications (ICTTA2006)
- Elyas Khameneh, Hossein Khasteh and Mohsen Amiri, "New Method in Using a Manipulator for Autonomous Victim Detection", 2nd IEEE International Conference on Information and Communication Technologies: From Theory To Applications (ICTTA2006)
- S. Mohsen Amiri, Mohammad Mehdi Daneshpanah, Omid Goodarzi, Alireza Fadaei, "The IUT Persia, Team Description Paper (TDP)", Proceeding of RoboCup-2003 Italy

## Awards received

- Participated in the IUT MSL RoboCup team (The IUT Persia team) and obtained 3<sup>rd</sup> place at the RoboCup2003 Middle Size World Championship (Padova, Italy, 2003).
- Participated in the IUT SSL RoboCup team (The IUT Flash team) and obtained 3<sup>rd</sup> place at of the Robocup German Open 2003 Small size league (Paderborn, Germany, 2003).
- Participated in 28<sup>th</sup> ACM ICPC (International Collegiate Programming Contest) Asia Region (Tehran site, Iran, 2003) and Ranked 11<sup>th</sup> place among about 80 teams.
- Participated in 27<sup>th</sup> ACM ICPC (International Collegiate Programming Contest) Asia Region (Tehran site, Iran, 2002) and Ranked 13<sup>th</sup> place among about 80 teams.
- Obtained the Second Place (Silver medal) in Iranian National Olympiad of Chemistry (A pre-program for attending the intentional Olympiad of chemistry) (young scholarship student club, Tehran, Iran, 1999).

## **Research Interests**

Image Processing and Computer Vision.

- Image Change Detection & Image Registration ( Medical Images, Remote Sensing)
- Color Texture Analysis
- Multi Resolution Image Analysis (Wavelet, Ridgelet, Curvelet)
- Statistical Image Analysis (Blind Source Separation)
- Image Fusion ( Medical Images, Remote Sensing)

Robotics.

Data Mining.

## **Activities and work experience**

**September 2004 – December 2005, Image Processing Lab. Sharif University of Technology**

- Research Assistance( Texture change detection in color and multi-spectral images (Remotely sensed images or medical images).

**October 2002 – September 2003, IUT Robotic Center, Isfahan University of Technology.**

- Designed the real time and omni directional vision system for Persia Middle-Size robocup Team that ranked 3<sup>rd</sup> place in robocup2003 (Padova, Italy, 2003), Including Object-Detection and Self-

Localization parts.

- Designed the Path Planning and Trajectory system for Persia Middle size Robocup team, that ranked 3<sup>rd</sup> place in Robocup2003 (Padova, Italy, 2003).

**July 2003 – September 2003, IUT Switching and FPGA Lab, ECE Department of IUT , Student experiment project.**

- HDL (Hardware Design Language)
- FPGA (Field Programmable Array)

**September 2001 – December 2001, IUT AI Lab (Research Assistance) , ECE Department of IUT.**

- Programmer and Algorithm Designer.
- Image processing.
- Intelligent systems and multi agent systems.
- Robotics.

**2001-2004, Member of IUT's ACM Teams.**

- 2001 – 2003 Member of IUT's ACM ICPC (International Collegiate Programming Contest) for tree years and ranked 11<sup>th</sup> and 13<sup>th</sup> place.
- 2003 Participated in the 28<sup>th</sup> ACM ICPC Asia region (Tehran site, Iran, 2003) as coach of one the participating teams.
- 2004 Participated in the 29<sup>th</sup> ACM ICPC Asia region (Tehran site, Iran, 2004) as coach of one of the participating teams.

**2001 – 2002, ISTT (Isfahan Science and Technology Town) Member of The Machine vision core.**

- Programming for Automation Systems.
- Programming for Machine Vision Systems.
- Participated in the following projects :
  1. Small Nuts quality Controlling Using Machine Vision.
  2. Designing and developing special Line Scanner Camera.
  3. Using Image processing in Steel Industry quality controlling.

## **Skills**

Programming and Algorithm Design, Well experienced with programming Languages( C/C++, VC++ ,Delphi ,Pascal , Java),Matlab , OS(Windows , Linux).

## **Teaching Experience**

- Signals and system Teaching Assistance ( Fall 2004 – Spring 2005 – Fall 2005) ,Sharif University of Technology
- Digital Video System, (Fall 2005) a graduate course in Sharif University of Technology.
- Electromagnetic Teaching Assistance ( Fall 2003, IUT).

## **References**

### **1. Dr. Shohreh Kasaei**

Associate Professor at Sharif University of Technology

**Phone** : +98-21-6616-4631

**Email** : skasaei@sharif.edu

### **2. Dr. Shadrokh Samavi**

Associate Professor at ECE Department of IUT.

**Phone** : +98-311-391-2450

**Email** : samavi96@cc.iut.ac.ir

### **3. Saeed Sadri**

Assistance Professor at ECE Department of IUT.

**Phone** : +98-311-391-2456

**Email** : sadri@cc.iut.ac.ir

### **4. Dr. M.T. Manzuri**

Assistance Professor at Sharif University of Technology

**Phone** : +98-21-6616-4611

**Email** : manzuri@sharif.edu