

In the name of God, the Compassionate, the Merciful

MOHAMMAD AMIN MEHRALIAN

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EDUCATION

Iran University of Science & Technology (IUST) (Sept 2013-present)
PhD Candidate in Computer Engineering, Minor in Artificial Intelligence and Robotic

- Image Processing Lab (IPL)
- **Thesis:** Improving Camera 3D Pose Estimation for Indoor Environment.
- **Supervisor:** Dr. Mohsen Soryani

Amirkabir University of Technology (AUT-Tehran Polytechnic) (Sept 2009-Jan 2012)
M.S. in Computer Engineering, Minor in Artificial Intelligence and Robotic

- Laboratory for Intelligent Multimedia Processing (LIMP)
- **Thesis:** Analysis of Modulation Type and Modulation Characteristics of Digital Signals Using Digital Signal Processing and Intelligent Techniques.
- **Supervisor:** Dr. Mohammad Mehdi Homayounpour

Arak University (Feb 2005-Aug 2009)
B.S. in Computer Engineering, Minor in Software Engineering

- **Thesis:** Persian on-line Handwritten Character Recognition (using HMM).
- **Supervisor:** Dr. Kazim Fouladi

RESEARCH INTERESTS

- Image Processing & Computer Vision
- Robotic
- Machine Learning
- Statistical Pattern Recognition
- Digital Signal Processing

AWARDS AND HONORS

- Ranked 3rd in the Amirkabir Artificial Intelligence Competition(AAIC2013), Visual Traffic Analysis league. (Nov 2013)
- Best M.S. dissertation award, department of computer engineering and information technology, Amirkabir university of technology. (Dec 2012)
- Ranked 3rd in the AAIC2012, Object Category Recognition league. (Nov 2012)
- The paper “GMM supervector based SVM for digital modulation recognition.”, ranked as top papers in 17th Annual Conference of Computer Society of Iran. (Mar 2012)
- The paper “Recognition of online isolated handwritten Persian characters using SVM”, ranked as top papers in 7th Iranian Conference on Machine Vision and Image Processing (MVIP). (Jan 2012)

COMPLETED COURSES

- Computer Vision (CV)
- Digital Image Processing (DIP)
- Advanced 3D Computer Vision
- Statistical Pattern Recognition
- Machine Learning
- Digital Signal Processing (DSP)
- Statistical Natural Language Processing (NLP)
- Neural Networks
- Evolutionary Computing
- Stochastic Processes
- Speech Processing and Recognition
- Multiagent Systems
- Text to Speech Conversion

EXPERIENCE

Research Assistant (Sep 2013-present)
Iran University of Science & Technology, Image Processing Lab (IPL)

- DIP course teaching assistant. (Fall 2014, spring 2015)

Instructor (Fall 2015)
Fundamentals of C programming, Iran University of Science & Technology

Researcher (Jan 2012-present)
Amnpardaz Co(Tehran), Image processing group

- Embedded video broadcasting software using ROS, OpenCV and GStreamer libraries.
On embedded computers Gumstix and Odroid XU3

Instructor (Spring 2012)
Fundamentals of Multimedia, Iran University of Industries and Mines (IUM)

Research Assistant (Sep 2009-Jan 2012)
Amirkabir University of Technology, Laboratory for Intelligent Multimedia Processing (LIMP)

- Development of a new DSP toolbox based on GSL¹ in C/C++.
- DSP course project teaching assistant. (Fall 2010)

Intern (Summer 2007)
Linux Indigenization Project, Advance Information & Communication Technology Research Center at Sharif University of Technology

TECHNICAL SKILLS

- Programming Languages: C/C++(Advanced), C#(Advanced), Java(Intermediate)
- Development Environments and Tools: Qt, Eclipse, MS Visual Studio, Git, Doxygen
- Technical Computing: MATLAB(Advanced), R(Beginner)
- Scientific Libraries: OpenCV(Intermediate), GSL(Intermediate)
- Robotic: ROS, ARM, Embedded Linux, Cross-compile, OE², Yocto
- Multimedia Programming: GStreamer, v4l2
- Database Systems: MS SQL Server, MySQL
- Web Development: C# ASP.NET, PHP, HTML, CSS, Javascript, jQuery
- Other: L^AT_EX(Advanced), MS Office(Advanced)

LINGUAL SKILLS

- English (Advanced)
- Persian (mother tongue)
- Familiar with Arabic (Intermediate)

REFERENCES

Dr. Mohsen Soryani

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Dr. Mehdi Homayounpour

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¹GNU Scientific Library

²Open Embedded