

Mahla Nejati

Contact Information

Room 805 Robot Perception Lab
[Department of Computer Engineering](#)
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Date of Birth: February 27th 1990

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Education

- B.Sc. in Computer Engineering-Software, Ferdowsi University of Mashhad, 2008-2013
 - Overall GPA: 17.05/20 (last two years GPA: 18.00/20)
 - Supervisor: [Prof. Ahad Harati](#)
Thesis title: “ Generating a software for representing Kinect RGB-D data and detection primary objects and their borders by several algorithms by Point Cloud Library (PCL) ”
 - Top Student
 - Computer Foundation and Programming
 - Microprocessors - I
 - Computer Organization and Language
 - Artificial Intelligence
 - General Mathematics I
 - Advanced Programming
- M.Sc. in Artificial Intelligence, Ferdowsi University of Mashhad, 2013-2015
 - Overall GPA: 17.73/20
 - Supervisor: [Prof. Ahad Harati](#)
Thesis title: “RGB-D Data Inpainting Using Markov Random Field”
 - Top Student
 - Image Processing
 - Advanced Artificial Intelligence
 - Neural Networks
 - Structural pattern Recognition

Skills

- **Computer:**
 - **Programming Languages:** C/C++, C#, Assembly (X86), HTML, PHP, AJAX, OpenGL, Prolog, PCL, Matlab
 - **Database:** SQL Server, MySQL
- **Language:**
 - **Persian:** Native
 - **English:** Fluent (IELTS: R:7 L:6 S:7.5 W:6 Overall:6.5)
 - **Arabic:** Familiar

**Research
Interests**

- Probabilistic graphical model
- Artificial Intelligence and robotics
- Machine vision and image processing on RGB-D data
 - ✓ Denoising and inpainting
 - ✓ Segmentation
 - ✓ Object detection
 - ✓ Markov Random Field in computer vision
- Graph Theory
- Problem Solving Strategies
- Sparse representation

**Technical And
Research
Experience**

- I was a part of the research group on microprocessor and published our research on ESCAPE Computer Scientific Magazine, Ferdowsi University of Mashhad, summer 2010.
- Ferdowsi University Internship Center, Mashhad, Iran – Develop management software using C# and SQL Server, summer 2011.
- Worked on optimization methodology for selecting suppliers by genetic algorithm, fall 2013.
- Research on Curvelet transform, spring 2014.
- Research on Image Segmentation and Smoothing RGB-D data by approximate surface reconstruction, spring 2014.
- Research on denoising RGB-D data by bilateral filtering, fall 2013.
- Research on window detection in building façade of LIDAR data

Membership

- **Scientific Society of Computer Engineering, 2010-2011**
 - Ferdowsi Game Programming Contest, Program Committee 2010-2011
- **Ferdowsi ACM Scientific Committee, 2013-2015**
 - Head of Scientific Committee of Ferdowsi Collegiate Programming Contest(FCPC)-2015
 - Problem setter of Ferdowsi Collegiate Programming Contest (FCPC) and practicing ACM/ICPC competitions, (2014-2015)
 - Problem setter and judge of internal and Qualification for ICPC contests, 2014
 - Teaching Problem solving Strategies, 2013
- **Ferdowsi ACM Executive Committee, 2010-2015**
 - Judge of Ferdowsi Collegiate Programming Contest (FCPC) and practicing ACM/ICPC competitions, 2014-2015.
- **Ferdowsi University Teacher Assistants Qualifier Committee, 2013-2015**
- **Executive committee, 3rd International Conference on Computer and Knowledge Engineering (ICCKE 2014), Ferdowsi University of Mashhad, 2014**
- **Intelligent Systems Scientific Society of Iran (ISSSI), 2014**
- **Robotics Perception Lab, 2012-Now**

Teaching Experience

- **Teaching Assistant, Electrical Circuits -1, Spring 2010**
- **Teaching Assistant, Algorithm Design, Fall 2011**
- **Teaching Assistant, Artificial Intelligence, 2012-2015 (5 Semester)**
- **Teaching Assistant, Advanced Artificial Intelligence, 2015**
- **Teaching Assistant, Compiler Design Concepts, 2014-2015(2 Semester)**
- **Teaching, Problem Solving Strategies, Ferdowsi University of Mashhad, Fall 2013**
- **Teaching, Image processing, Ferdowsi University of Mashhad, Winter 2015**
- **Seminar, Introduction to Kinect and its applications, Ferdowsi University of Mashhad, Spring 2012**
- **Seminar, Curvelet transform, Ferdowsi University of Mashhad, 2Hrs, 2014**
- **Seminar, Ethics in robotics, Ferdowsi University of Mashhad, 3Hrs, 2014**
- **Seminar, Image understanding using Markov random field, Ferdowsi University of Mashhad, 2014**

Honors and Awards

- **1st place**, ACM CCC2012 Programming contest as contestant, Islamic Azad University of Mashhad, 2012.
- **1st place**, ACM Quchan regional programming contest as contestant, Quchan University of Advanced Technologies Engineering, 2012.
- **2nd place**, ACM FCPC2012 programming contest as contestant, Ferdowsi University of Mashhad, 2012.
- **9th place**, ICPC2012 programming contest as contestant, Asia Regional, Sharif University of Technology, 2012.
- **3rd place**, Qualification for ICPC National programming contest as contestant, Ferdowsi University of Mashhad, 2012.
- **3rd place**, Qualification for ICPC National Programming contest as contestant, Ferdowsi University of Mashhad, 2013.
- **1st place**, Qualification for international Robocop IranOpen competitions as contestant, Research center of Bojnourd, 2007.
- **3rd student** among undergraduate students of year 2008-2009.
- **3rd student** among undergraduate students of year 2009-2010.
- **Top student** among undergraduate students of year 2011-2012.
- Ranked among the **top 0.8%** of about half a million participants in the Iranian University Entrance Exam, 2008.
- Ranked among the **top 1%** of about 19000 graduated participants in national M.S. computer engineering exam, 2012.
- Ranked among the **top 1%** of about 5000 graduated participants in national M.S. computer science exam, 2012.

References

- [Prof. Ahad Harati](#), Assistant Professor, Ph.D. in Computer Engineering, ETH, Zurich, Switzerland, 2008
- [Prof. Hamidreza Pourreza](#), Associate Professor, Ph.D. in Computer Engineering, Tehran, Iran 2003
- [Prof. Saeid Abrishami](#), Assistant Professor, Ph.D. in Computer Engineering, Ferdowsi University of Mashhad, Iran 2011
- [Dr. Samad Paydar](#), Assistant Professor, Ph.D. in Computer Engineering, Ferdowsi University of Mashhad, Iran 2014.