

Mohammad Moghimi

Curriculum Vitae

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Interests

Computer Vision (Recognition, Detection and Classification Problems)

Machine Learning/Pattern Recognition

Education

- 2010–Now **PhD student in Computer Science (Computer Vision)**, *Cornell University*, New York, NY.
Advisor: Prof. Serge Belongie
Research: Ego-centric Computer Vision
Transferred with advisor from UC San Diego to Cornell University.
- 2007–2010 **MSc in Computer Engineering (Artificial Intelligence)**, *Sharif University of Technology*, Tehran, Iran, 18.67/20.
Advisor: Prof. Shohreh Kasaei
Thesis: Multiclass Visual Object Recognition Based on Cluttered Images
○ Ranked **first** in national university entrance exam for M.Sc degree in Computer Engineering in year 2007.
○ Ranked **first** among all Masters students of Computer Engineering Department in 2008.
- 2003–2007 **BSc in Computer Engineering (Software Engineering)**, *University of Tehran*, Tehran, Iran, 17.23/20.
Advisor: Prof. Babak Nadjar Araabi
Thesis: University Course Timetabling Using Improved Genetic Algorithm
○ Ranked **second** among all of the university computer engineering students in year 2003.
- 1999–2003 **Diploma in Mathematics and Physics**, *Allameh Helli Highschool*, Tehran, Iran.
Allameh Helli is the Tehran branch of NODET(National Organization for Development of Exceptional Talents).

Research Experiences

- Aug2014–Now **Computer Vision Lab, Department of Computer Science, Cornell University, New York, NY** .
Egocentric Computer Vision
- Sep2011–
Aug2014 **Computer Vision Lab, Department of Computer Science and Engineering, University of California, San Diego, San Diego, CA** .
○ **Interactive Image-based Geolocation**
○ **Egocentric Vision, Object/Activity Recognition**
- Jun2013–
Sep2013 **AI Group, Facebook Inc, Menlo Park, CA** .

- Jun2012–
Sep2012 **Goggles Team, Google Inc, Los Angeles, CA .**
- Sep2010–
Jun2011 **Systems Energy Efficiency Lab, Department of Computer Science and Engineering, University of California, San Diego, San Diego, CA .**
Energy Management in Mobile Phones
- Oct2009–
Dec2009 **Department of Schölkopf, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.**
Blind Deconvolution Using Variational Bayesian Method
- Feb2008–
Aug2010 **Image Processing Laboratory (IPL), Computer Engineering Department, Sharif University of Technology, Tehran, Iran.**
Multiclass Visual Object Recognition Based on Cluttered Images
- Oct2004–
Mar2006 **Multi-Agent Systems Research Group, University of Tehran Technology Incubator (MASLAB), Tehran, Iran.**
Development of Autonomous Soccer Agents for Robocup Competition
- Aug2006–
Oct2006 **Sepanta Robotics Research Foundation (SRRF), Tehran, Iran.**
Multi Processor Task Scheduling

Awards and Honors

- 2010 **UCSD CSE Department Fellowship**, *UCSD fellowship for the academic year of 2010-2011.*
- 2009 **Telecommunication Research Center (ITRC) Research Grant**, *awarded to my Masters thesis.*
- 2008 **3rd Team Rank**, *10th Asia Regional ACM Programming Contest along with the "Until The Last Moment" team members, 109 teams participated from Iran, Sharif site, Tehran.*
- 2008 **1st Rank**, *Achieving the highest GPA among all university Computer Engineering graduate students.*
- 2007 **Silver Medal**, *12th National Collegiate Scientific Olympiad in Computer Engineering.*
- 2007 **8th Rank**, *Nationwide M.Sc. entrance exam in Computer Science of Iranian Universities.*
- 2007 **1st Rank**, *Nationwide M.Sc. entrance exam in Computer Engineering-Artificial Intelligence of Iranian Universities.*
- 2006 **4th Team Rank**, *8th Asia Regional ACM Programming Contest along with the "Happy Three Friends" team members, 85 teams participated from Iran, Sharif site, Tehran.*
- 2006 **2nd Rank**, *First Annual Programming Contest, Amirkabir University of Tech, Tehran, Iran.*
- 2006 **Successful Participation**, *Robocup-2006, Roboludens Soccer Simulation 3D League along with the teammates in "F.I.R.S.T", Eindhoven, Netherlands.*
- 2005 **5th Team Rank**, *7th Asia Regional ACM Programming Contest along with the "Terminator" team members, 74 teams participated from Iran, Sharif site, Tehran.*

- 2004 **2nd Rank**, *F.O.E (Faculty of Engineering) 2nd Award for achieving the second best GPA among all university Computer Engineering students.*
- 2004 **9th Team Rank**, *6th Asia Regional ACM Programming Contest along with the "UT1" team members, 72 teams participated from Iran, Sharif site, Tehran.*
- 2004, 2005, 2006 **1st Team Rank**, *University of Tehran Qualification Contest for Asia Regional ACM Programming Contest Tehran Site, Sharif University of Technology.*
- 2003 **Top 0.1 %**, *Nationwide entrance exam of Iranian Universities, very competitive with nearly 500,000 participants.*
- 2002 **Bronze Medal**, *19th Iran National Mathematics Olympiad, Young Scholars Club (YSC), Tehran.*

Teaching Experiences

- Winter 2012 **Teaching Assistant**, *Mathematics for Algorithm and Systems Analysis (CSE21) at CSE Department, University of California, San Diego.*
- Fall 2011 **Teaching Assistant**, *Image Processing Course (CSE166) at CSE Department, University of California, San Diego.*
- Spring 2009 **Teaching Assistant**, *Neural Networks Course (CE40667) at CE Department, Sharif University of Technology.*
- Fall 2008 **Teaching Assistant**, *Advanced Digital Image Processing Course (CE40823) at CE Department, Sharif University of Technology.*
- Spring 2007 **Teaching Assistant**, *Algorithm Design Course (ECE424) at ECE Department, University of Tehran.*
- Fall 2006 **Teaching Assistant**, *Artificial Intelligence Course (ECE397) at ECE Department, University of Tehran.*
- 2006-2007 **Teacher**, *Computer Course, Allameh Helli High School, Tehran.*
- Summer 2005 **Teacher**, *Teaching Introduction to Linux Systems, University of Tehran.*
- Spring 2004 **Teaching Assistant**, *Advanced Programming Course (ECE119), ECE Department, University of Tehran.*

Professional Experience

- Summer 2013 **Intern**, *Working for Facebook Inc in its headquarters at Menlo Park, CA in the AI Group.*
- Summer 2012 **Intern**, *Working for Google Inc in the LAX office on Google Goggles.*
- 2011-now **Coach**, *Coaching UCSD ACM/ICPC programming team which advanced to the world finals in 2011.*
- Fall 2009 **Intern/Researcher**, *Research in the field of Machine Learning and Image Processing, Max Plank Institute of Tübingen, Germany.*
- 2006-2008 **Problem Setter and Judge**, *Problem Setter and Judge of the 3rd, 4th and 5th HelliNet Programming Tournament.*
- 2007-2008 **Programmer (Part Time)**, *Developing an Engineering Workstation for a Distributed Control System, Farineh Fanavar Corp.*
- 2005-2007 **Problem Setter and Judge**, *Problem Setter and Judge of University of Tehran's Local Weekly ACM Programming Contests.*

- Summer 2006 **Intern/Researcher**, Working as a researcher in Sepanta Robotic Research Foundation (SRRF).
- 2004-2006 **Researcher**, Working as a researcher and manager in Mutli-Agent Systems Lab(MASLAB), University of Tehran.
- 2004-2005 **ACM Officer**, Head of ACM Student Chapter of University of Tehran.
- 2001-2002 **Network Administrator**, Administration of Allameh Helli's Computer Site.

Publication

- 2014 **M. Moghimi**, et. al, "Classifying Physical Activity and Sedentary Behavior in Life-logging Images", SUBMITTED TO *Proceedings of International Conference on Image Processing Multimedia (ICIP 2014)*
- 2014 **M. Moghimi**, P. Azagra, L. Montesano, A. C. Murillo, S. Belongie, "Experiments on an RGB-D Wearable Vision System for Egocentric Activity Recognition", *CVPRW 2014*
- 2014 H. Altwaijry, **M. Moghimi**, S. Belongie, "Discriminative Regions: A Substrate for Analyzing Life-logging Image Sequences", *IEEE Winter Conference on Applications of Computer Vision (WACV 2014)*
- 2012 **M. Moghimi**, J. Venkatesh, P. Zappi, T. Simunic Rosing, "Context Aware Power Management for Smartphones Using Fuzzy Expert System", *Fourth International Conference on Mobile Computing, Applications and Services (MobiCASE 2012)*
- 2010 A. Ghodrati, **M. Moghimi Najafabadi**, S. Kasaei, "Human Action Categorization Using Weighted Spatiotemporal Features", *18th Iranian Conference on Electrical Engineering (ICEE 2010)*
- 2008 M. Babaeizadeh, **M. Moghimi Najafabadi**, "Content-Aware Image Resizing Based on Color", *Proc. of Fifth Iranian Conference on Machine Vision and Image Processing (MVIP 2008)*
- 2007 **M. Moghimi Najafabadi**, M. Zali: "Defining Reinforcement Learning Problem to Solve Static Multi Processor Task Scheduling", *accepted by The International Conference on Intelligent Systems Design and Applications (ISDA 2007)*
- 2007 M. Zali , **M. Moghimi Najafabadi**, M. Salmani Jelodar, "Task Scheduling in Multi-Processor Systems Using Genetic Algorithm and Reinforcement Learning", *Proc. of 12th International CSI Computer Conference*
- 2007 **M. Moghimi Najafabadi**, M. Zali, F. Taghiyareh and S. Taheri: "Static Task Scheduling Using Genetic Algorithm and Reinforcement Learning", *Proc. of IEEE Symposium on Computational Intelligence in Scheduling (CI-Sched 2007)*
- 2006 **M. Moghimi Najafabadi** and C. Lucas: "Evolving Artificial Neural Networks for Prediction in Robocup Soccer", *Proc. of Ninth Scientific Computing in Electrical Engineering (SCEE2006), Tehran, Iran, September 2006*

Languages

- Persian **Mother Tongue**
- English **Fluent**
- Arabic **Moderate**

Computer skills

Programming Language C/C++, Python, MATLAB, Java

Familiar With C#, Pascal, Prolog

Web Programming HTML, PHP, J2EE, JavaScript

IDE vim/gcc, IntelliJ Idea, Microsoft Visual Studio

Type Setting \LaTeX , Open Office, Microsoft Office

Operating System Linux (Ubuntu), Mac OS X, Microsoft Windows, Android, iOS

Mobile Programming Android