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	Type Setting	LaTeX, Open Office, Microsoft Office
Familiar With	C#, Pascal, Prolog	Operating System	Linux (Ubuntu), Mac OS X, Microsoft Windows, Android, iOS
Web Programming	HTML, PHP, J2EE, JavaScript	Mobile Programming	Android
IDE	vim/gcc, Intellij Idea, Microsoft Visual Studio		