

Amin Jourabloo

CONTACT INFORMATION

Department of Computer Science
Michigan State University
MI, USA

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RESEARCH INTERESTS

Computer Vision, Deep Learning, Sparse Representation.

EDUCATION

Michigan State University, MI, USA

PhD Student, August 2014 - Now

- Advisor: Dr. Xiaoming Liu
- GPA: 3.7/4

Sharif University of Technology, Tehran, Iran

M.Sc. Student, September 2010 - September 2012

- Dissertation Topic: “Visual Tracking Using Sparse Representation”
- Advisor: Dr. Manzuri
- GPA: 18.64/20 (4/4)

Ferdowsi University, Mashhad, Iran

B.Sc. Student, September 2006 - September 2010

- Dissertation Topic: “License Plate Recognition System Based on Machine Vision”
- Advisor: Dr. Pourreza
- GPA: 16.83/20 (3.6/4)

PUBLICATIONS

Journal Papers:

- **A. Jourabloo**, X. Liu, “**Pose-Invariant Face Alignment via CNN-based Dense 3D Model Fitting**,” International Journal of Computer Vision, April 2017.
- M. Zolfaghari, **A. Jourabloo**, S. Ghareh Gozloub, M.T. Manzuri-Shalmani, “**3D Human Pose Estimation from Image using Couple Sparse Coding**,” Journal of Machine Vision and Applications, Vol. 25, No. 6, pp. 1489-1499, August 2014. [[Springer link](#)] [[PDF](#)]
- B. Babagholami-Mohamadabadi, **A. Jourabloo**, A. Zarghami, S. Kasaei, “**A Bayesian Framework for Sparse Representation-Based 3D Human Pose Estimation**,” IEEE Signal Processing Letters, Vol. 21, No. 3, pp. 297-300, March 2014. [[IEEE link](#)] [[PDF](#)] [[SM](#)]
- **A. Jourabloo**, A.H. Feghahati, M. Jamzad, “**New Algorithms for Recovering Highly Corrupted Images with Impulse Noise**,” Journal of Scientia Iranica, Elsevier, Vol. 19, No. 6, pp. 1738-1745, December 2012. [[Elsevier link](#)] [[PDF](#)]

Conference Papers:

- **A. Jourabloo**, M. Ye, X. Liu, L. Ren, “**Pose-Invariant Face Alignment with a Single CNN**,” Submitted to IEEE International Conference on Computer Vision (ICCV), 2017. [Under Review] [[Email Me for Draft Version](#)]
- **A. Jourabloo**, X. Liu, “**Large-pose Face Alignment via CNN-based Dense 3D Model Fitting**,” In Proceeding of IEEE Computer Vision and Pattern Recognition (CVPR), 2016. (Acceptance Rate \sim 29.9%) [[PDF](#)] [[Poster](#)]

- **A. Jourabloo**, X. Liu, “**Pose-Invariant 3D Face Alignment**,” In Proceeding of International Conference on Computer Vision (ICCV), 2015. (Acceptance Rate \sim 30%) [[IEEE link](#)] [[PDF](#)] [[Poster](#)]
- **A. Jourabloo***, X. Yin*, X. Liu, “**Attribute Preserved Face De-identification**,” International Conference of Biometrics (ICB), 2015. (* denotes equal contribution by the authors) [[IEEE link](#)] [[PDF](#)]
- B. Babagholami-Mohamadabadi, **A. Jourabloo**, A. Zarghami, M. Soleymani Baghshah “**Supervised Dictionary Learning Using Distance Dependent Indian Buffet Process**,” IEEE International Workshop on Machine Learning for Signal Processing (MLSP), 2013. [[IEEE link](#)] [[PDF](#)] [[SM](#)]
- B. Babagholami-Mohamadabadi, **A. Jourabloo**, M. Zolfaghari, M.T. Manzuri-Shalmani, “**Bayesian Supervised Dictionary Learning**,” Big Data meet Complex Models Workshop, Uncertainty in Artificial Intelligence (UAI), 2013. [[Conference link](#)] [[PDF](#)] [[SM](#)]
- **A. Jourabloo**, B. Babagholami-Mohamadabadi, A.H. Feghahati, M.T. Manzuri-Shalmani, M. Jamzad, “**Visual Tracking by Dictionary Learning and Motion Estimation**,” IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012. [[IEEE link](#)] [[PDF](#)]
- A.H. Feghahati, **A. Jourabloo**, M. Jamzad, M.T. Manzuri-Shalmani, “**Visual Tracking Using Sparse Representation**,” IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), 2012. [[IEEE link](#)] [[PDF](#)]
- B. Babagholami-Mohamadabadi, **A. Jourabloo**, M.T. Manzuri-Shalmani, “**A Robust Global Motion Estimation for Digital Video Stabilization**,” Australian Joint Conference on Artificial Intelligence (AUS-AI), 2012. [[Springer link](#)] [[PDF](#)]
- A.H. Feghahati, **A. Jourabloo**, M. Jamzad, “**New Algorithms for Recovering Highly Corrupted Images with Impulse Noise**,” 2nd International Conference on Contemporary Issues in Computer and Information Sciences (CICIS), Iran, 2011.
- **A. Jourabloo**, “**Genetic-PSO Fuzzy Data Mining With Divide and Conquer Strategy**,” International Conference on Artificial Intelligence (ICAI), 2011. [[PDF](#)]

TALKS

“Pose-Invariant Face Alignment via CNN-Based Dense 3D Model Fitting,” Midwest vision workshop, Chicago IL. **April 2016**

HONORS AND AWARDS

Honorable Mention, Engineering Graduate Research Symposium, Michigan State University, 2015.
 Awarded College of Engineering Excellence Fellowship (EEF), Michigan State University, 2014.
 Ranked 5th among students of Artificial Intelligence in M.Sc. based on overall GPA.
 Ranked 4th among students of software engineering in B.Sc. based on overall GPA.
 Ranked 40th in the nationwide M.Sc. university entrance exam, 2010.
 Won acceptance in the first stage of nationwide competition to select national Mathematics Olympiad team, 2004.

INDUSTRIAL EXPERIENCE

Research Intern, Bosch Research and Technology Center, Palo Alto, CA. **Fall 2016**
Mentor: Mao Ye, Bilal Alsallakh.
Project: Pose-Invariant Face Alignment with a Single CNN

Research Intern, Bosch Research and Technology Center, Palo Alto, CA. **Summer 2016**
Mentor: Mao Ye, Bilal Alsallakh.
Project: Visualization with Deep Learning

ACADEMIC
EXPERIENCE

Teaching Assistant, Advanced 3D Computer Vision **Spring 2012**
Sharif University of Technology
Under supervision of Prof. S. Kasaei

Teaching Assistant, Digital Image Processing **Fall 2012**
Sharif University of Technology
Under supervision of Prof. S. Kasaei

Teaching Assistant, Digital Image Processing (for PhD students of food industry) **Spring 2010**
Ferdowsi University of Mashhad
Under supervision of Dr. H. Pourreza

Teaching Assistant, Electrical Circuits 1 **Fall 2008**
Ferdowsi University of Mashhad
Under supervision of Dr. H. Pourreza

COMPUTER SKILLS

- Programming Language: C/C++, Java, .Net Framework, PHP, HTML, MySQL
- Operating Systems: Microsoft Windows family & DOS, Linux
- Signal Processing: Matlab
- Computer Vision Library: OpenCV
- Deep Learning: Caffe, MatConvNet.