

YU-WEI CHAO

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AREA OF INTERESTS

Computer Vision, Machine Learning, Signal Processing

EDUCATION

University of Michigan, Ann Arbor, MI September 2011 - April 2013
M.S. in Electrical Engineering: Systems GPA: 3.96/4.00
Advisor: Prof. Silvio Savarese

National Chiao Tung University, Hsinchu, Taiwan September 2005 - June 2009
B.S. in Electronics Engineering, Minor in Applied Mathematics GPA: 3.85/4.00

Carnegie Mellon University, Pittsburgh, PA Fall 2008
International Exchange Program GPA: 3.80/4.00

WORK EXPERIENCE

Graduate Student Research Assistant, University of Michigan, Ann Arbor, MI May 2013 - Present
Advisor: Prof. Silvio Savarese

Research Assistant, Academia Sinica, Taipei, Taiwan August 2010 - July 2011
Mentor: Dr. Yu-Chiang Frank Wang

PUBLICATIONS

Y.-W. Chao, W. Choi, C. Pantofaru, and S. Savarese. Layout Estimation of Highly Cluttered Indoor Scenes using Geometric and Semantic Cues. In *Proceedings of the International Conference on Image Analysis and Processing (ICIAP)*, 2013.

W. Choi, **Y.-W. Chao**, C. Pantofaru, and S. Savarese. Understanding Indoor Scenes using 3D Geometric Phrases. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2013. (**oral presentation**, 3.2% acceptance rate)

C.-P. Wei, **Y.-W. Chao**, Y.-R. Yeh, and Y.-C. F. Wang. Locality-Sensitive Dictionary Learning for Sparse Representation Based Classification. *Pattern Recognition*, Volume 46, Issue 5, May 2013, Pages 1277-1287.

S. Y. Bao, M. Bagra, **Y.-W. Chao**, and S. Savarese. Semantic Structure From Motion with Points, Regions, and Objects. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.

Y.-W. Chao, Y.-R. Yeh, Y.-W. Chen, Y.-J. Lee, and Y.-C. F. Wang. Locality-constrained Group Sparse Representation for Robust Face Recognition. In *Proceedings of the IEEE International Conference on Image Processing (ICIP)*, 2011.

TEACHING EXPERIENCE

Teaching Assistant of online courses at Coursera

- Computer Vision: From 3D Reconstruction to Visual Recognition

Graduate Student Instructor (GSI) at University of Michigan

- EECS 442 Computer Vision

Fall 2012

HONORS & AWARDS

Government Scholarships for Study Abroad (GSSA), Ministry of Education, Taiwan May 2011

Achievement Award for Mandatory Service Officers, Ministry of National Defense, Taiwan June 2010

Study Abroad Scholarship for Outstanding College Students, Ministry of Education, Taiwan Fall 2008

Academic Achievement Award (Class Rank: 2/51), National Chiao Tung University Spring 2008

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ACADEMIC SERVICES

Conference Paper Reviewer

- International Conference on Image Analysis and Processing (ICIAP), 2013

Student Volunteer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, OR, June 2013

OTHER ACHIEVEMENTS

Technology Transfer - Industrial Technology Research Institutes, Hsinchu, Taiwan
Sparse Representation Based Face Recognition Technology

December 2011

SKILLS & LANGUAGES

Programming Languages: C/C++, MATLAB, Java, Python

Operating Systems: Windows, Linux

Languages: English, Chinese (Mandarin), Taiwanese