Yandong Wen

Contact Information

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Research Interests

Computer Vision, Deep Learning, Dictionary Learning, Sparse Coding, Face Recognition.

Education

South China University of Technology (SCUT), Guangzhou, P. R. China

M.S., School of Electronic and Information Engineering — Sep 2013 - Present

- GPA:3.72/4.0, Rank:3/46

South China University of Technology (SCUT), Guangzhou, P. R. China

B.Eng., School of Electronic and Information Engineering — Sep 2009 - Jul 2013

- GPA:3.74/4.0, Rank:21/272

Research Experience

Multimedia Laboratory, Shenzhen Institutes of Advanced Technology

Visiting Student — May 2015 - Present

Deep Learing for Age-Invariant Face Recognition

- We propose a Latent Factor guided Convolution Neural Networks (LF-CNNs) for age-invariant face recognition, beating the state-of-the-art algorithms by significant margin.
- This work has been submitted to **CVPR 2016**

Deep Learing for Face Verification

- We achieve **99.2%** and **99.5%** verification accuracy in LFW database by single and ensemble model respectively, only using publicly available training images.
  Supervisor: Prof. Zhifeng Li & Prof. Yu Qiao

Intelligent Information Processing Lab, South China University of Technology

Research Assistant — Sep 2013 - May 2015

Image-based Face Recognition via Sparse Representation

- We propose novel approaches to address the problem of occlusion, misalignment in face recognition, achieving **better performance** with **less time**.
- Some papers have been published based on this work.
  Supervisor: Prof. Yuli Fu

Research Intern — Sep 2012 - Jul 2013

Image Denoising via Sparse Representation

- Outstanding Bachelor Thesis Award.
  Supervisor: Prof. Yuli Fu & Prof. Haifeng Li

Professional Membership & Activities

Microsoft Technology Club (MSTC), South China University of Technology

Member of the Technology Department — Sep 2013 - May 2014

- Held the *SeedCoder2014* Programming Contest sponsored by Microsoft Research Asia (MSRA) from March 26, 2014 to April 21, 2014. More than 130 teams signed up for competition.

Vice President of the Club May 2014 - Present

- Organized Special Interest Group (SIG) within Technology Department. 2 or 3 members choose a topic they interested and focus it jointly for half a year.
- Held Specialist Seminar about latest progress in Computer Science (CS) within Department of Technology, once a month.

Awards

National Postgraduate Mathematic Contest in Modeling Nov 2013

- First Prize (**Top 2.6%**)

Outstanding Bachelor Thesis Award (Top 10%) Jul 2013

***Desay Cup* National Software Innovation Contest** Nov 2012

- Second Prize (**Top 2%**)

Electronic Design Contest in Guangdong Province Sep 2012

- Second Prize (Top 15%)

Scholarship in SCUT Sep 2010 & Sep 2012 & Sep 2014 & Sep 2015

Outstanding Student Award Sep 2010 & Sep 2012

Publications

1. **Yandong Wen**, Zhifeng Li, Yu Qiao. "Age-Invariant Deep Face Recognition." *submited to CVPR 2016.*
2. **Yandong Wen**, Weiyang Liu, Meng Yang, Yuli Fu, Youjun Xiang, and Rui Hu. "Structured Occlusion Coding for Robust Face Recognition." *Neurocomputing*, 2015.
3. **Yandong Wen**, Weiyang Liu, Meng Yang. "Efficient Face Alignment via Locality-constrained Representation for Robust Recognition." *arXiv preprint:1507.07073*, 2015.
4. Weiyang Liu, Zhiding Yu, **Yandong Wen**, Meng Yang and Yuexian Zou. "Multi-Kernel Collaborative Representation for Image Classification." *IEEE International Conference on Image Processing (IEEE ICIP 2015)*, Quebec City, Canada, 2015.
5. **Yandong Wen**, Youjun Xiang and Yuli Fu. "A Joint Classification Approach via Sparse Representation for Face Recognition." *IEEE International Conference on Signal Processing (IEEE ICSP 2014)*, Hangzhou, China, 2014.
6. Weiyang Liu, Zhiding Yu, Lijia Lu, **Yandong Wen**, Hui Li and Yuexian Zou. "KCRC-LCD: Discriminative Kernel Collabotative Representation with Locality Constrained Dictionary for Visual Categorization.." *Pattern Recognition*, 2014.
7. Weiyang Liu, **Yandong Wen**, Hui Li, and Bing Zhu. "Dictionary Construction for Sparse Representation Classification: A Novel Cluster-based Approach." *IEEE Symposium on computers and Communications (IEEE ISCC 2014)*, Madeira, Portugal, 2014.
8. Weiyang Liu, **Yandong Wen**, Kai Pan, Hui Li, and Yuexian Zou. "A Kernel-based L2 Norm Regularized Least Square Algorithm for Vehicle Logo Recognition." *International Conference on Digital Signal Processing (DSP 2014)*, HongKong, China, 2014.

CORE COURSES

Undergraduate Courses

Advanced Mathematics I 87/100	Advanced Mathematics II 94/100
General Physics I 94/100	General Physics II 99/100
Linear Algegra 85/100	Probabilities & Mathematical Statistics 92/100
C Programming Language II 95/100	Principle & Application of Microcomputer 93/100
Mobile Communication 93/100	Image Manipulation & Analysis 83/100
Embedded System and its Application 90/100	Project of Digital System Design 94/100
Modern Switch Technology 91/100	Principle of Digital Communication 91/100

Postgraduate Courses

Matrix Analysis 92/100	Optimization Methods 93/100
Adaptive Signal Processing 87/100	Modern Digital Signal Processing 90/100
Machine Learning 94/100	Digital Image Processing 93/100