

Xiong Li

Department of Automation

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Education

- Ph.D. **Shanghai Jiao Tong University**, Shanghai, China
Department of Automation
Advisor: Prof. Yuncai Liu
expected in 03/2012
- M.S. **Southeast University**, Nanjing, China
Department of Automation
Thesis proposal: *Web Information Extraction based on Simplified Semantic Representation and Conditional Random Fields.*
Advisor: Associate Prof. Lizuo Jin
03/2008
- B.E. **Nanjing University of Aeronautics and Astronautics**, Nanjing, China
Department of Aircraft Power Engineering
Thesis proposal: *Auto Generation of Knowledge Base for Airplane Diagnosis.*
Advisor: Prof. Zhifeng Ye
06/2004

Research Interest

- Machine learning Hybrid Generative-Discriminative Learning, Graphical Model.
Low-level vision Learning Hierarchical Visual Concepts.

Professional Experience

- 2008.06–Present Research assistant at Computer Vision Laboratory, Shanghai Jiao Tong University.
2009.09–2010.01 Teaching assistant for Optimization Theory, Shanghai Jiao Tong University.
2006.04–2008.03 Research assistant at Pattern Recognition Laboratory, Southeast University.

Project Experience

- 2008.6-2008.12 Team leader of Multi-camera Tracking project (cooperate with NTT, Japan).
2002.11-2003.10 Team leader of MyCamps.NET Digital Campus System funded by Microsoft Research Asia and awarded the first prize at Jiangsu of Microsoft Creativity Cup.

Publications

Xiong Li, Tai Sing Lee, Yuncai Liu, "Hybrid Generative-discriminative Classification using Posterior Divergence ", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR'11)*, 2011.

Xiong Li, Liwei Wang, Huanxi Liu, Yuncai Liu, "Learning Parts-based Representation for Face Transition", *ACM Multimedia*, 2010.

Xiong Li, Xu Zhao, Yun Fu, Yuncai Liu, "Bimodal Gender Recognition from Face and Fingerprint", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR'10)*, 2010.

Xiong Li, Xu Zhao, Huanxi Liu, Yun Fu, Yuncai Liu, "Multimodality Gender Estimation using Bayesian Hierarchical Model", *IEEE Conference on Acoustics, Speech and Signal Processing (ICASSP'10)*, 2010. (Oral Presentation, 8%).

Xiong Li, Xu Zhao, Yun Fu, Yuncai Liu, "Weak Metric Learning for Feature Fusion towards Perception-Inspired Object Recognition", *International Conference on MultiMedia Modeling (MMM'10)*, LNCS 5916:273-283, 2010. (Oral Presentation).

Xiong Li, Xu Zhao, Yuncai Liu, "Local Feature Fusion for Object Recognition under Visual Perception-Inspired Framework", *IEEE Conference on Development and Learning (ICDL'09)*, 2009.

Chenhao Wang, Xiong Li, Yuncai Liu, "Monocular 3D Tracking of Deformable Surfaces Using Linear Programming", *International Conference on Pattern Recognition (ICPR'10)*, 2010.

Huanxi Liu, Xiong Li, Yuncai Liu, "Fast Fingerprint Orientation Field Estimation based on Straight-line Model of Ridges", *Optical Engineering*, 48(9), 2009.

Huanxi Liu, Xiaowei Lv, Xiong Li, Yuncai Liu, "Unimodal Biometric System based on Local Topology Structure Preserving Projections", *Optical Engineering*, 48(11), 2009.

Huanxi Liu, Xiaowei Lv, Xiong Li, Yuncai Liu, "Fingerprint Orientation Field Estimation: Model of Primary Ridge for Global Structure and Model of Secondary Ridge for Correction", *Asian Conference on Computer Vision (ACCV'09)*, 2009.

Awards

- 2010 Microsoft Research Asia Fellowship (28 winners in Asia and Austria, \$6000)
- 2009 & 2009 National Scholarship for Outstanding Students (4%)
- 2006 The First Class Scholarship of Southeast University (5%)
- 2006 Excellent Member of Microsoft Research Asia Summer Camp
- 2003 The First Prize (Jiangsu) of Microsoft Creativity Cup (about 40 teams)

Skills & Interests

- Programming Proficient in C, C++, C# and Matlab
- Table tennis The top player of college team;
Bronze medalist of team competition of Shanghai Jiao Tong University, 2010