Yilin Wang

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Objective

To seek a summer intern position, with expertise in machine learning, computer vision and data mining, including compressive sensing, multi-task learning, multi-instance learning, image processing, object detection, motion analysis, face recognition.

Education

2013.8-Present	Department of Computer Science and Engineering. Arizona State University, AZ [GPA 3.95/4.0].	Ph.D.
2011.9-2013.6	Department of Computer Science and Engineering. Arizona State University, AZ	MS.
2007.9-2011	Department of Information and Technology. Shenyang University of Technology	BS.

Experience

Department of Com. Sci. & Eng., Arizona State Univeristy   **2013.8~Now**

Research Assistant, working on the following computer vision and multimedia related projects:

- Advisor: Baoxin Li;
- Automatic Understanding of Web Images: developing algorithms, features and system for automatically inferring sentiment on the web images;
- Compressive Sensing and Matrix Completion for Correlated Sources: a new model decomposing the images into physic-inspired components, which has been applied in application including imaging processing, face recognition etc.
- Multiple Instance Learning: scene understanding and medical image analysis;

Teaching Assistant, CSE 591

Aviation Industry Corporation of China   **2010.8~2010.10**

- Advisor: Dahai Chen;
- Automatic finger pattern matching algorithm based on the key point.

Course Projects   **2013.8~Now**

- Content Base Image Retrieval System: we use K-NN and KD-tree to retrieval images from the database, which are represented as color, shape, edge and SIFT histograms;
- A Social-Aware Image Tag Recommendation System: design an image tag recommendation system, which considers not only the image contents, but also consider the image owner's personality and social relationship, via Hierarchical Dirichlet Process.

Selected Publication

[1] **Yilin Wang** and Baoxin Li, Structure Preserving Image Quality Assessment. IEEE International Conference on Multimedia and Expo (ICME), 2015, Torino, Italy. (oral)

[2] **Yilin Wang,** Yuheng Hu, Subbarao Kambhampati and Baoxin Li, Looking and Feeling: Learning to infer Human Sentiment on Web Images. International AAAI Conference on Weblogs and Social Media (ICWSM), 2015, Oxford, UK. (oral)

[3] Parag S. Chandakkar, **Yilin Wang** and Baoxin Li, Improving Vision-based Self-positioning in Intelligent Transportation Systems via Integrated Lane and Vehicle. IEEE Winter Conference on Application of Computer Vision (WACV), 2015, Waikoloa Beach, HI. (oral)

[4] Qiang Zhang, Jiayu Zhou**, Yilin Wang**, Jieping Ye, Baoxin Li, Multi-Task Image Co-segmentation. British Machine Vision Conference (BMVC), 2014, Nottingham, UK. (poster)

Professional Activities

- **Student Member**: IEEE Computer Society, SIAM
- **Student Volunteer:** ACM MM 2011
- **Reviewer**: PC member of IJCAI 15. Extend Reviewer AAAI15, Reviewer WACV15 and ITSC 2014

News

Arizona State University News: Tactile Photography, "Seeing by Touching"

ABC News: Printed Photos the Blind Can See.

Link:

https://asunews.asu.edu/20120611_baoxinli_tactilephotos

http://abcnews.go.com/Technology/printed-photos-blind/story?id=12951372

Skills

Programing language: C/C++, Java, Matlab, OpenCV, Latex, Linux, Windows (MFC);

Computer vision: motion analysis, face recognition, object recognition, multiple instance learning, saliency detection;

Machine learning: statistical learning, compressive sensing and matrix completion, multiple task learning.

Graduate Core Course

Machine Learning, Data Mining, Social Media Mining, Statistical Learning, Shape Analysis, Optimization, Probability and Stochastic Process, Multimedia and Web Databases.

Referees

Available upon request.