**Lin Chen**

Tel: 4802776157 Email: lchen109@asu.edu Tempe, AZ, 85281

## EDUCATION

| | | |
|---|---|---|
| 2011.8-present | Department of Computer Science and Engineering, Arizona State university, U.S. [GPA 3.81/4.00] | Ph.D. |
| 2008.9-2011.6 | Department of Computer Science and Technology, Shandong University, China | M.S. |
| 2004.9-2008.6 | Department of Computer Science and Technology, Shandong University, China | B.S. |

## PROFESSIONAL EXPERIENCE

- **Visual Representation and Processing Group, Arizona State University, 2011.8-present**

  Work on computer vision and machine learning related projects under the advisory of Prof. Baoxin Li
  - Computational approaches for automatic understanding of motion skills in surgical simulations;
  - Attribute prediction and scene understanding through multi-task learning;
  - Image retrieval/ranking through attributes learning;
  - Multi-class feature selection through sparse learning and clustering.
- **Research Intern at Nokia-Tech, 2015.5-2015.8**

  Work on 360-degree panorama media processing
  - Developed a prototype system for view recommendation in panorama images/videos;
  - Filed two invention reports (patents on pending).
- **HCI & VR Research Lab, Shandong University, 2009.9-2011.6**

  Work on designing and developing a new 3D rendering engine under the advisory of Prof. Xiangxu Meng
  - Developing a file parser which can parse popular 3D model files and generate a data structure for post-processing;
  - Developing modules for texture generation and texture mapping.
- **Graphics & Geometric Computing Group, Tsinghua University**, **2008.9-2009.6**

  Work as research student on Intelligent processing of visual media under the advisory of Prof. Shimin Hu
  - Geometric texture transfer and preservation during model deformation.

## PUBLICATIONS

[1] **Lin Chen** and Baoxin Li, “Fusing Pointwise and Pairwise Labels for Supporting Personalized Image Retrieval”, ACM International Conference on Multimedia Retrieval (ICMR), June 2015.

[2] **Lin Chen**, Qiang Zhang, Peng Zhang and Baoxin Li, “Instructive Video Retrieval For Surgical Skill Coaching Using Attribute Learning”, IEEE International Conference on Multimedia and Expo (ICME), June 2015.

[3] **Lin Chen**, Peng Zhang and Baoxin Li, “Instructive Video Retrieval Based on Hybrid Ranking and Attribute Learning”, ACM Multimedia (MM), November 2014.

[4] Qiang Zhang, **Lin Chen** and Baoxin Li, “Max-margin Multi-attribute Learning with Low-rank Constraint”, IEEE Transactions on Image Processing, Vol. 23, 2014.

[5] **Lin Chen**, Qiang Zhang and Baoxin Li, “Predicting Attributes via Relative Multi-task

Learning", Computer Vision and Pattern Recognition (CVPR), 2014 IEEE Conference on, June, 2014.

[6] **Lin Chen**, Qiang Zhang, Qiongjie Tian and Baoxin Li, "Learning Skill-Defining Latent Space in Video-Based Analysis of Surgical Expertise – A Multi-Stream Fusion Approach", NextMed / MMVR 2013 (Medicine Meets Virtual Reality) 2013.

[7] Qiongjie Tian*, **Lin Chen***, Qiang Zhang and Baoxin Li, "Enhancing Fundamentals of Laparoscopic Surgery Trainer Box via Designing A Multi-Sensor Feedback System", NextMed / MMVR 2013 (Medicine Meets Virtual Reality) 2013. (* Equally contributed)

[8] Qiang Zhang, **Lin Chen**, Qiongjie Tian and Baoxin Li, "Video-based analysis of motion skills in simulation-based surgical training", IS&T/SPIE Electronic Imaging, 2013.

[9] **Lin Chen** and Xiangxu Meng, "Anisotropic Resizing and Deformation Preserving Geometric Texture", Science in China Series F-Information Sciences Information Sciences. December 2010 Vol. 53 No. 12: 2441–2451.

[10] **Lin Chen** and Xiangxu Meng, "Anisotropic Resizing of Model with Geometric Textures", 2009 SIAM/ACM Joint Conference on Geometric and Physical Modeling.

## CERTIFICATION

- IBM eServer Certified Specialist - pSeries Administration and Support for AIX 5L v5.2. Aug. 3, 2005. IBM CERT F1509099 3.
- IBM Certified Solution Developer - XML and Related Technologies. Dec. 10, 2005. IBM CERT F1530617 20.

## PATENTS

- M13-086P: Video-based system for improving surgical training by providing corrective feedback on a trainee's movement

## SELECTED AWARDS

- University Graduate Fellowship, 2015.
- Student Travel Award of ACMMM, 2014.
- IBM Chinese Excellent Student Scholarship, 2010.
- Outstanding students of Shandong Province, 2008.
- MCM(The Mathematical Contest in Modeling)/ICM(The Interdisciplinary Contest in Modeling), Honorable mention, 2007.
- Chinese national scholarship for outstanding students, 2007.
- HP Scholarship for Outstanding Chinese Students, 2007.
- Chinese Undergraduate Mathematical Contest in Modeling (CUMCM), National second prize, 2006.

## OTHER ACADEMIC ACTIVITIES

- Teaching Assistant of CSE 310: Data Structure and Algorithm, Arizona State University, Spring 2014.
- Teaching Assistant of Computer Graphics for Undergraduates, Shandong University, Spring 2009.
- Student Volunteer for CVPR 2014 and ACM MM 2011.