Zhensong Zhang

CONTACT
INFORMATION

Ph.D. Student

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RESEARCH
INTERESTS

My research interest includes computer graphics and computer vision. Recently, I work on image and video editing, and computational videography.

EDUCATION

The Chinese University of Hong Kong, Hong Kong

Ph.D., Computer Science and Engineering   2014 - present
- Supervisor: Prof. Hanqiu Sun
- Thesis Title: Robust Multi-view Video Synopsis and Panoramic Navigation

University of Chinese Academy of Sciences, Beijing

M.S., Computer Applied Technology   2011 - 2014

Xidian University, Xi'an

B.E., Software Engineering   2007 - 2011

RESEARCH
EXPERIENCE

Research Assistant   Aug 2014 - present
Department of Computer Science and Engineering
The Chinese University of Hong Kong
Supervisor: Prof. Hanqiu Sun

Research Assistant   Sep 2011 - Jun 2014
HCI Lab, Institute of Software
Chinese Academy of Sciences
Supervisors: Prof. Fengjun Zhang and Prof. Hui Chen

Research Assistant   Sep 2010 - Jun 2011
School of Software
Xidian University
Supervisor: Prof. Yanni Li

CONFERENCE
PUBLICATIONS

- Lai, Q., Nie, Y., **Zhang, Z.** and Sun, H.
Temporal Coherent Video Super-resolution via Pre-frame-constrained Sparse Reconstruction
Accepted to *CGI 2018*. Bintan Island, Indonesia, June 11-14, 2018.

- **Zhang, Z.**, Nie, Y., Sun, H., Lai, Q. and Li, G.
Multi-video Object Synopsis Integrating Optimal View Switching
In *SIGGRAPH ASIA 2017 Technical Briefs*. Bangkok, Thailand, November 27 - 30, 2017.

- Su, T., Nie, Y., **Zhang, Z.**, Sun, H. and Li, G.
Video Stitching for Handheld Inputs via Combined Video Stabilization
In *SIGGRAPH ASIA 2016 Technical Briefs*. Macao, December 5 - 8, 2016.

- Li, Y., Wang, Y., **Zhang, Z.**, Wang, Y., Ma, D. and Huang, J.
A Novel Fast and Memory Efficient Parallel MLCS Algorithm for Long and large-scale Sequences Alignments
In *Proceedings of the 32nd IEEE International Conference on Data Engineering (ICDE)*. Helsinki, Finland, May 16 - 20, 2016.

- **Zhang, Z.**, Nie, Y. and Sun, H.
Color Correspondence of Image Warping using Plane Constraints
In *Proceedings of the 21st ACM Symposium on Virtual Reality Software and Technology (VRST)*. Beijing, China, November 13 - 15, 2015.

- **Zhang, Z.**, Zhang, F., Chen, H., Liu, J., Wang, H. and Dai, G.
Left and Right Hand Distinction for Multi-touch Tabletop Interactions
In *Proceedings of the 19th ACM International Conference on Intelligent User Interfaces (IUI)*. Haifa, Israel, February 24 - 27, 2014.

JOURNAL
PUBLICATIONS

- Nie, Y., Su, T., **Zhang, Z.**, Sun, H. and Li, G.
Dynamic Video Stitching via Shakiness Removing
In *IEEE Transactions on Image Processing*, 27 (1), pp. 164 - 178, 2018.

- Nie, Y., **Zhang, Z.**, Sun, H., Su, T. and Li, G.
Homography Propagation and Optimization for Wide-baseline Street Image Interpolation
In *IEEE Transactions on Visualization and Computer Graphics*, 23 (10), pp. 2328 - 2341, 2017.

- Li, Y., Wang, Y., Jiang, P. and **Zhang, Z.**
Multi-objective Optimization Integration of Query Interfaces for the Deep Web based on Attribute Constraints
In *Data & Knowledge Engineering*, 86, pp. 38 - 60, 2013.

DRAFTS

- Nie, Y., Cao, X., Li, P., Zhang, Q., **Zhang, Z.**, Li, G. and Sun, H.
Sketch-alike Contours Generation using Interactive Dense-validation Optimization
Submitted to *IEEE Transactions on Image Processing*. Under review.

- **Zhang, Z.**, Nie, Y., Sun, H., Lai, Q. and Li, G.
Occlusion-free Multi-video Synopsis via Automatic View Switching
In preparation for *IEEE Transactions on Visualization and Computer Graphics*.

AWARDS

Travel Award
- International Conference on Intelligent User Interfaces, Haifa, Israel   Feb 2014

Student Awards - The Chinese University of Hong Kong
- CUHK Postgraduate Studentship   2014 - 2018
- Best TA Award   2017
- Certificate of Merit TA Award   2015 & 2016 & 2017

Student Awards - University of Chinese Academy of Sciences
- National Scholarship   2013

Student Awards - Xidian University
- National Scholarship for Encouragement   2009
- The First Class Scholarship for Academic Achivement   2008 & 2010

TEACHING
ASSISTANT

CSCI 5460 - Virtual Reality	Spring 2016 & Fall 2016 & Fall 2017
CSCI 3170 - Introduction to Database Systems	Spring 2017
CSCI 2100 - Data Structures	Spring 2015
CSCI 3310 - Mobile Computing and Applications Development	Fall 2014 & Fall 2015

SKILLS

Programming
C/C++, Java, Matlab, Python, LaTeX