



Juncheng Liu



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Profile

I am currently a Ph.D. candidate at Institute of Computer Science and Technology, Peking University. I obtained my B.S. Degree in Software Engineering from School of Software, Dalian University of Technology in 2013. During Oct 2017 to Oct 2018 I visited visual computing group at Cardiff University supervised by professor Paul L. Rosin. My research interests lie at computer graphics, computer vision and pattern recognition. Specifically, I work on algorithms of data-driven 3D shape analysis from large datasets.

Education & Experience

VISITING SCHOLAR, CARDIFF UNIVERSITY, UK 2017.10-2018.10

PHD CANDIDATE, INSTITUTE OF COMPUTER SCIENCE AND TECHNOLOGY, PEKING UNIVERSITY – 2013-PRESENT

BACHELOR, SCHOOL OF SOFTWARE, DALIAN UNIVERSITY OF TECHNOLOGY – 2009-2013

Skills

Proficiency in using C++, MATLAB. Familiar with Python, openCV, openGL. Know about WebGL, Java, .NET.

Main courses:

undergraduate: Mathematical Analysis, Data Structures and Algorithms, Compilers, Operating System, Software Engineering, etc.

graduate: Computer Graphics and Multimedia, Convex Optimization, Manifold learning and sparse representation, etc.

Publications

1. **Juncheng Liu**, Zhouhui Lian, Yi Wang, and Jianguo Xiao. "Incremental Kernel Null Space Discriminant Analysis for Novelty Detection." In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, pp. 792-800. 2017.
2. **Juncheng Liu**, Paul L. Rosin, Xianfang Sun, Zhouhui Lian and Jianguo Xiao. "Image-driven Unsupervised 3D ModelCo-segmentation" Accepted by The Visual Computer (CGI'19 track)

3. **Juncheng Liu**, Zhouhui Lian and Jianguo Xiao. "Auto-colorization of 3D models from images." *SIGGRAPH Asia Technical Briefs* (2017).
4. **Juncheng Liu**, Zhouhui Lian, Jianguo Xiao. "3D Mesh Unfolding using Semidefinite Programming." Eurographics Workshop on 3D Object Retrieval 2017.
5. **Juncheng Liu**, Zhouhui Lian, Jie Feng, Bingfeng Zhou (2015). Sketch based modeling via manifold regularization. SIGGRAPH Asia 2015 Technical Briefs. ACM.
6. Pickup David, **Juncheng Liu**, Xianfang Sun, Paul L. Rosin, Ralph R. Martin, Zhiquan Cheng, Zhouhui Lian et al. "An evaluation of canonical forms for non-rigid 3D shape retrieval." *Graphical Models* 97 (2018): 17-29.
7. Yi Wang, **Juncheng Liu**, Xin Fan, Xiangjian He, Qi Jia, Renjie Gao. Online Gesture-based Interaction with Visual Oriental Characters based on Manifold Learning. *Signal Processing*, 110: 123-131, 2015.
8. Yi Wang, Zhongxuan Luo, **Juncheng Liu**, Xin Fan, Haojie Li, Yunzhen Wu. Real-time Estimation of Hand Gestures based on Manifold Learning from Monocular Videos. *Multimedia Tools and Applications*, 71(2): 555-574, 2014.