

Xiaobai Liu, Ph.D.

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PROFESSIONAL PREPARATION

Ph.D.	Huazhong University of Science and technology, China	Computer Science	2006.09-2012.11
Postdoctor	University of California at Los Angeles (UCLA)	Statistics & Computer Science	2012.12-2015.07

APPOINTMENTS

2015.8 - Present Assistant Professor
Department of Computer Science, San Diego State University

PUBLICATIONS

Five Related Publications

Zhanglin Peng, Ruimao zhang, Xiaodan Liang, Liang Lin, **Xiaobai Liu**. “Geometric Scene Parsing With Hierarchical LSTM”. International Joint Conference on Artificial Intelligence (IJCAI), 2016.

Xiaobai Liu, Yadong Mu and Liang Lin. “A Stochastic Grammar for Fine-grained 3D Scene Reconstruction”. International Joint Conference on Artificial Intelligence (IJCAI), 2016

Xiaobai Liu, Yibiao Zhao, Song-Chun Zhu. “Single-View 3D Scene Parsing by Attributed Grammar”. IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2014

Xiaobai Liu, Liang Lin, Hai Jin. “Contextualized Trajectory Parsing via Spatio-temporal Graph”. IEEE Trans. Pattern Anal. Mach. Intell. (TPAMI), 2013

Xiaobai Liu, Liang Lin, Shuicheng Yan, Hai Jin, Wenbing Tao. “Integrating Spatio-Temporal Context With Multiview Representation for Object Recognition in Visual Surveillance”. IEEE Trans. Circuits Syst. Video Techn. (TCSVT) 21(4): 393-407, 2011

Five Other Significant Publications

Yuanlu Xu, **Xiaobai Liu**, Song-Chun Zhu. “Multi-view People Tracking via Hierarchical Trajectory Composition”. IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2016

Xiaobai Liu. “Multi-View 3D Human Tracking in Crowded Scenes”. Thirtieth AAAI Conference on Artificial Intelligence (AAAI), 2016

Xiaobai Liu, Liang Lin, Shuicheng Yan, Hai Jin, Wenbin Jiang. “Adaptive Object Tracking by Learning Hybrid Template Online”. IEEE Trans. Circuits Syst. Video Techn. (TCSVT) 21(11): 1588-1599,2011

Liang Lin, **Xiaobai Liu**, Song-Chun Zhu. “Layered Graph Matching with Composite Cluster Sampling”. IEEE Trans. Pattern Anal. Mach. Intell. (TPAMI) 32(8): 1426-1442,2011

Xiaobai Liu, Liang Lin, Song Chun Zhu, Hai Jin. “Trajectory Parsing by Cluster Sampling in Spatio-temporal Graph”. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2009

SYNERGISTIC ACTIVITIES

1. Created several video benchmarks on the topics of visual vehicle-to-vehicle interaction, multi-view tracking, single-view scene reconstruction, and made them publically accessible to the computer vision community.
2. Developed three new classes at the department of Computer Science in SDSU, including Computer vision (CS 696), Machine learning (CS 596), and Data Mining (CS 653) , for both undergraduate and graduate students.
3. Served as Session Chairs for two technical sessions: Deep learning and Video Analysis, in the AAAI Conference on Artificial Intelligence, 2016, which is a prestigious conference in Artificial Intelligence.
4. Served as reviewers for multiple top journals in computer vision, including International Journal of Computer Vision, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Image Processing etc.
5. Worked as Program Committee Members for multiple international conferences, including ACM Conference on Multimedia 2016, International Joint Conference on Artificial Intelligence 2016, European Conference on Computer Vision 2016, AAAI Conference on Artificial intelligence 2016.