Jun Wan

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Research Interests

Computer Vision, Machine Learning, in particular, Gesture and Action Recognition, Hand Tracking and Segmentation.

EDUCATION

Sept. 2009-	Beijing Jiaotong University	Beijing, P. R. China
Oct. 2014	School of Computer and Information Technology	
(Expect)	My current advisor Prof. Qiuqi Ruan	
	Major: Signal and Information Processing	
	Research area: gesture recognition, hand tracking	
	Ph.D	
Sept.2008-	Beijing Jiaotong University	Beijing, P. R. China
July. 2009	School of Electronic and Information Engineering	0 3/
•	GPA 89.1/100. Rank: 3/28	
Sept. 2004-	China university of Geosciences (Beijing)	Beijing, P. R. China
July. 2008	School of Geophysics and Geoinformation Systems	5
	B.E. GPA: 88.7/100. Rank: 3/70	
Honors (sele	cted)	
2013	Best Paper Award from the Institute of Information Science, Beijing Jiaotong University, China	
2012	2012 One-Shot-Learning ChaLearn Gesture Challenge Award (3rd Prize), USA	
2008	Olympic Volunteers honor certificate	
2007	Meritorious Winner in American Interdisciplinary Contest in Modeling	
	1 st class National Scholarship	
2006	2 nd Prize in Undergraduate Mathematical Contest in Modeling in Beijing Contest District	
2005	University-level merit student	
Skills (selecte	ed)	

- Intensive experience in: MATLAB; C/C++, MFC;
- Computer Skills: MS Office (Word, Excel, PowerPoint, Visio);
- Interest: Table Tennis; Swimming; Tennis; Badminton;

Publication

Journals:

- 1. Jun Wan, Qiuqi Ruan, Shuang Deng and Wei Li "One-shot Learning Gesture Recognition from RGB-D Data Using Bag of Features", Journal of Machine Learning Research (JMLR), pp. 2549-2582, Vol 14, 2013. (SCI, IF: 3.42)
- 2. Jun Wan, Qiuqi Ruan, Wei Li, Gaoyun An and Ruizhen Zhao "3D SMoSIFT: Three-dimensional Sparse Motion Scale Invariant Feature Transform for Activity Recognition from RGB-D Videos", Journal of Electronic Imaging (**JEI**), 23(2), 023017, 2014. (SCI, IF:1.06)
 - 3. Jun Wan, Vassilis Athitsos, Pat Jangyodsuk, Hugo Jair Escalante, Qiuqi Ruan, and Isabelle Guyon, "CSMMI:

- Class-Specific Maximization of Mutual Information for Action and Gesture Recognition", IEEE Transactions on Image Processing (TIP), vol 23(7), pp. 3152-3165, 2014. (SCI, IF: 3.19)
- 4. **Jun Wan**, Qiuqi Ruan, Wei Li, Yanyan Liang, Gaoyun An, Ruizhen Zhao "The Dynamic Model Embed in Augmented Graph Cuts for Robust Hand Tracking and Segmentation in videos", (under review, SCI), 2014.
- 5. Wei Li, Qiuqi Ruan, **Jun Wan** "Graph-preserving shortest feature line segment for dimensionality reduction", Neurocomputing, vol 110, pp 80-91, 2013. (SCI, IF:1.634)
- 6. Wei Li, Qiuqi Ruan, **Jun Wan** "Dimensionality Reduction Using Graph-embedded Probability-based Semi-supervised Discriminant Analysis", Neurocomputing, vol 138, pp 283-296, 2014. (SCI, IF: 1.634)
- 7. Wei Li, Qiuqi Ruan, **Jun Wan** "Semi-supervised dimensionality reduction using estimated class membership probabilities", Journal of Electronic Imaging, vol 21(4), 043010, 2012. (SCI, IF: 1.06)
- 8. Wei Li, Qiuqi Ruan, **Jun Wan** "Fuzzy Nearest Feature Line-based Manifold Embedding for Facial Expression Recognition", Journal of Information Science and Engineering, vol 20, no 2, pp 329-346, 2013. (SCI, IF: 0.299) **Conferences:**
- 9. **Jun Wan**, Qiuqi Ruan, Yingchun Li "A New Method of Automatic Recognition of B-Mode Ultrasound Imaging of Common Carotid Artery in Longitude", Bioinformatics and Biomedical Engineering, 4th International Conference on, pp.1-4, 2010.
- 10. **Jun Wan**, Qiuqi Ruan, Wei Li "Using two methods for recognition common carotid artery of B-mode longitudinal ultrasound image", Signal Processing, IEEE 10th International Conference on, pp. 1-4, 2010.
- 11. **Jun Wan**, Qiuqi Ruan, Gaoyun An, Wei Li "Hand tracking and segmentation via graph cuts and dynamic model in sign language videos", Signal Processing, IEEE 11th International Conference on, pp. 1135-1138, 2012.
- 12. **Jun Wan**, Qiuqi Ruan, Gaoyun An, Wei Li "Gesture recognition based on Hidden Markov Model from sparse representative observations", Signal Processing, IEEE 11th International Conference on, pp. 1180-1183, 2012.
- 13. Wei Li, Qiuqi Ruan, **Jun Wan** "Two-dimensional uncorrelated linear discriminate analysis for facial expression recognition", Signal Processing (ICSP), IEEE 10th International Conference on, pp. 1362-1365, 2010.
- 14. Wei Li, Qiuqi Ruan, Gaoyun An, **Jun Wan** "Feature extraction of multimodal data by cluster-based correlation discriminative analysis", Signal Processing (ICSP), IEEE 11th International Conference on, pp. 797-800, 2012.
- 15. Wei Li, Qiuqi Ruan, Gaoyun An, **Jun Wan** "Discriminative uncorrelated neighborhood preserving projection for facial expression recognition", Signal Processing (ICSP), IEEE 11th International Conference on, pp. 801-805, 2012.
- 16. Taosheng Zhou, Qiuqi Ruan, **Jun Wan**, Gaoyun An, "Embedded accelerated Gaussian model in graph cuts for automatic hand segmentation", Signal Processing, Communication and Computing, IEEE International Conference on, pp. 1-6, 2013.

Others:

- 17. Hugo Jair Escalante, Isabelle Guyon, Vassilis Athitsos, Pat Jangyodsuk, **Jun Wan**, "Principal motion components for gesture recognition using a single-example", arXiv preprint arXiv:1310.4822, 2013.
- 18. Hugo Jair Escalante, Isabelle Guyon, Vassilis Athitsos, Pat Jangyodsuk, **Jun Wan**, "Principal motion components for one-shot gesture recognition", Journal of Visual Communication and Image Representation, (under review), 2014.

Chinese Patent:

1. **万军**, 阮秋琦, 安高云, 基于 RGB-D 数据构成的少量训练样本的手势识别方法, 中国, 申请号: 201310522370.7

Review for the following journals: