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# Jianwu FANG

# Education Background

2012.9 - Now Ph.D., Signal and Information Processing, Center for OPTical Imagery Analysis and Learning (OPTIMAL), Xi'an Institute of Optics and Precision Mechanics, University of Chinese Academy of Science.

Xi'an Institute of Opt. and Pre. Mech., University of Chinese Academy of Sciences

- 2009.9 2012.7 **MEng**, *Information Engineering and Control*, Department of Electrical Engineering and Control, Chang'an University (211).
- 2005.9 2009.7 **BEng**, *Automation*, Department of Electrical Engineering and Control, Chang'an University (211).

#### Research Interests

Video/Image Content Analysis, Object Detection and Tracking, Multi-spectral video analysis, Intelligent Traffic Systems (ITS).

#### Research Achievements

- **1 J. Fang**, Q. Wang, Y. Yuan, "Part-based Online Tracking with Geometry Constraint and Attention Selection," *IEEE Transactions on Circuit Systems for Video Technology (IEEE)*, vol. 24, no. 5, pp. 854-864, 2014. *SCI*, *IF*=2.615.
- **2** Y. Yuan, **J.Fang**, Q. Wang, "Robust Superpixel Tracking via Depth Fusion," *IEEE Transactions on Circuit Systems for Video Technology (IEEE)*, vol. 24, no. 1, pp. 15-26, 2014. *SCI, IF*=2.615.
- **3** Q. Wang, **J. Fang**, and Y. Yuan, "Multi-cue Based Tracking," *Neurocomputing (Elsevier)*, vol. 131, pp. 227-236, 2014. *SCI*, *IF*=2.083.
- **4** Y. Yuan, **J. Fang**, and Q. Wang, "Online Anomaly Detection in Crowded Scenes via Structure Preservation," *IEEE Transactions on Cybernetics (IEEE)*, vol. 45, no. 3, pp. 562-575, 2015. *SCI*, *IF*=3.469.
- **5** Q. Wang, **J. Fang**, and Y. Yuan, "Adaptive Road Detection via Context-aware Label Transfer," *Neuro-computing (Elsevier)*, vol. 158, pp. 174-183, 2015. *SCI, IF*=2.083.
- **6** Y. Yuan, **J. Fang**, and Q. Wang, "PAD: Pay Attention to Dangers When Driving," *Pattern Recognition*, 2015, Submitted. *SCI*, *IF*=3.096.

### Project Experience

- 1 Project: National Natural Science Foundation of China (NSF Program) under Grants 61379094. Description: Multi-source imagery based saliency detection and image resizing. Contribution: Serve as the third participant in charge of visual attention modeling, and multi-source information integration.
- **2** Project: National Basic Research Program of China (973 Program) under Grant 2011CB707104. Description: Information extraction and fast change detection from multi-source heterogeneous data.

Contribution: Serve as an implementer responsible for multi-spectral video analysis, visualization, and anomaly detection.

- **3** Project: National Natural Science Foundation of China (NSF Program) under Grants 61105012. Description: Stereo vision based image semantic segmentation. Contribution: Serve as an implementer responsible for video analysis, semantic analysis, and object tracking.
- **4** Project: National Natural Science Foundation of China (NSF Program) under Grants 61172143. Description: Multi-modal probabilistic topic model for test visualization. Contribution: Serve as an implementer responsible for semantic analysis, and probabilistic topic model construction.

## Research Activities

- 1 Reviewer of several SCI Journals, such as Neurocomputing, SCIENCE CHINA Information Sciences.
- 2 TPC Member of ICME 2014/2015, ChinaSIP 2014/2015, ICSI 2014/2015, CIS 2014.
- 3 Reviewer of BMVC 2014/2015, ICASSP2014, ACM Multimedia 2014, etc.

### Honors and Awards

- ${\bf 1} \ \ {\sf Outstanding \ Doctoral \ Graduates}, \ {\sf University \ of \ Chinese \ Academy \ of \ Sciences}, \ 2015.$
- 2 Pivot of Merit Student Award, University of Chinese Academy of Sciences, 2014.
- 3 Zhu Liyuehua Outstanding Doctoral Scholarship, University of Chinese Academy of Sciences, 2014.
- 4 Outstanding Master Graduates, Chang'an University, 2012.
- 5 Pivot of Merit Student Award, Chang'an University, 2011.
- 6 Outstanding Bechelar Graduates, Chang'an University, 2009.
- 7 National Scholarship, Chang'an University, 2007.

# Skills and Expertise

- 1 Algorithms, Statistics, Optimizations.
- 2 Traffic video Processing, Pattern Recognition, Computer Vision.
- 3 Image/Video Content Analysis.
- 4 Matlab, LaTeX, C/C++, Illustrator, Visio.