

Wei Ke

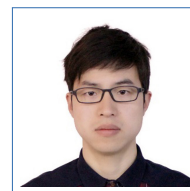
PhD student

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📄 <https://kevinkecc.github.io/>



Education

- 2011.09–
present **PhD of Signal and Information Processing**,
University of Chinese Academy of Sciences, Beijing.
- 2007.09–
2011.07 **BE of Electrical Engineering and Automation**,
Beihang University, Beijing.
Passed with distinction.

Experience

- 2011.09–
present **Research Assistance**,
Pattern Recognition and Intelligent System Development Laboratory, University of Chinese Academy of Sciences, Beijing.
Supervised by Prof. Qixiang Ye
 - Visual object detection, feature design, and deep learning
- 2015.10–
2016.10 **Joint PhD Student**,
Center for Machine Vision and Signal Analysis, University of Oulu, Finland.
Supervised by Prof. Guoying Zhao and Dr. Jie Chen
 - Object proposal re-ranking using texture complexity
 - Reflection symmetry detection in nature images
- 2012.06–
2012.12 **Visiting Student**,
Broadband Network and Digital Media Lab, Tsinghua University, Beijing.
Supervised by Prof. Xiangyang Ji
 - Application of structure light for depth
- 2010.09–
2011.01 **Research Intern**,
Beihang University, Beijing.
Supervised by Prof. Baochang Zhang
 - Multi-focus image fusion

Achievements

- National scholarship for graduate students, 2016
- Merit student, University of Chinese Academy of Sciences, 2012 and 2015
- Outstanding graduate student, Beihang University, 2011
- First-prize scholarship of Science and Technology, Beihang University, 2010
- Third-class scholarship of Academic Performance, Beihang University, 2010

- Outstanding student cadre, Beihang University, 2010
- Second-class of undergraduate electronic design contest, Beijing, 2010

Skills

Programming C/C++, Matlab, Python

Toolbox OpenCV, Caffe, VLfeat, Piotr Dollar's Computer Vision Matlab Toolbox

Language English (Speaking, reading and writing fluently)

Selected Publications

2017

Ke, W., J. Chen, J. Jiao, G. Zhao, and Q. Ye. "SRN: Side-output Residual Network for Object Symmetry Detection and Beyond". In: *Submitted to TIP*.

2017

Ke, W., J. Chen, J. Jiao, G. Zhao, and Q. Ye. "SRN: Side-output Residual Network for Object Symmetry Detection in the Wild". In: *CVPR2017, Oral*.

2017

Ye, Q., T. Zhang, and **W. Ke** et al. "Self-learning Scene-specific Pedestrian Detectors using a Progressive Latent Model". In: *CVPR2017*.

2016

Ke, W. and T. Zhang et al. "Texture Complexity based Redundant Regions Ranking for Object Proposal". In: *CVPR Workshop on Robust Features for Computer Vision*.

2015

Ke, W. and Y. Zhang et al. "Pedestrian detection via PCA filters based convolutional channel features". In: *Acoustics, Speech and Signal Processing (ICASSP), IEEE International Conference on*, pp. 1394–1398.

2014

Chen, X., P. Wei, **W. Ke**, Q. Ye, and J. Jiao. "Pedestrian detection with deep convolutional neural network". In: *ACCV 2014 Workshops*, pp. 354–365.

Other Publications

2014

Zhang, L., **W. Ke**, Q. Ye, and J. Jiao. "A novel laser vision sensor for weld line detection on wall-climbing robot". In: *Optics & Laser Technology*. Vol. 60, pp. 69–79.

2013

Zhang, L., **W. Ke**, Z. Han, and J. Jiao. "A cross structured light sensor for weld line detection on wall-climbing robot". In: *Mechatronics and Automation (ICMA), 2013 IEEE International Conference on*. IEEE, pp. 1179–1184.