Wei Ke

PhD student

University of Chinese Academy of Sciences
Beijing, 101408, China
18046504261
kewei11@mails.ucas.ac.cn
https://kevinkecc.github.io/

Education

2011.09–present **Ph.D. of Signal and Information Processing**,
University of Chinese Academy of Sciences, Beijing.

2007.09–2011.07 **B.E. of Electrical Engineering and Automation**,
Beihang University (former BUAA), 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 Ph.D. 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

- Chinese Academy of Sciences President Award, 2017
- 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)

Publications

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

Ke, **W.**, J. Chen, J. Jiao, G. Zhao, and Q. Ye. "SRN: Side-output Residual Network for Object Symmetry Detection in the Wild". In: *CVPR(**Oral**), 2017*.

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

Liu, C., **W. Ke**, J. Jiao, and Q. Ye. "RSRN: Rich Side-output Residual Network for Medial Axis Detection". Submitted to *ICCV Workshop on A Challenge: Detecting Symmetry in the Wild, 2017*. (The organizers told us during CVPR2017 conference that we got very promising results for this contest)

Ke, **W.**, J. Chen, and Q. Ye. "Deep contour and symmetry scored object proposal". *Submitted to Pattern Recognition Letters (under revision)*.

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, 2016*.

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, 2015.

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