PENG Xiaojiang

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EDUCATION BACKGROUNDS

Southwest Jiaotong University, Chengdu. 2010.08 - now
- PhD in Computer Applications Technology, Supervised by Prof. PENG Qiang.
- Courses: *Information Theory, Matrix Analysis, Signal Processing, etc.*

Kunming University of Sciences and Technology, Yunnan. 2005.09 - 2009.07
- Bachelor in Faculty of Information Engineering and Automation, Supervised by Prof. PAN Xiaolu. **Overall rank**: 2/60.

INTERESTS

Computer Vision: Low-level feature design and high-level vision problems such as object detection, image classification and action recognition.
Machine Learning: Dictionary learning, feature encoding and deep learning.

RESEARCH EXPERIENCES

Shenzhen Institute of Advanced Technology, CAS. 2013.02 - now
- Visiting Student of Multimedia Lab Supervised by Prof. QIAO Yu.
- **Research Work:** Spatial-temporal co-occurrence feature design, dictionary learning and feature encoding for video-based human action recognition.

Doctoral Innovation Funds of Southwest Jiaotong University. 2012.11 - now
- **Research Work:** Research on new feature and models of realistic human behavior analysis.

RESEARCH SKILLS

C/C++, MATLAB, MFC, C#, OPENCV, DLL, ActiveX

PUBLICATIONS

[C11]. **X.J. Peng**, L.M. Wang, Y. Qiao and Q. Peng. A Joint Evaluation of Dictionary Learning and Feature Encoding for Action Recognition, The 21th International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 2014.

[C10]. Z.J, Yang, W.N, Niu, **X.J. Peng**, etc. An Image-based Intelligent System for Pointer Instrument Reading, IEEE International Conference on Information Science and Technology, 2014.

[C09]. Z.W, Cai, L.M. Wang, **X.J. Peng**, and Y. Qiao. Multi-View Super Vector for Action Recognition, IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Columbus, Ohio, USA, June 2014. (oral)

[C08]. **X.J. Peng**, Y. Qiao and Q. Peng, Large Margin Dimensionality Reduction for Action Similarity Labeling, IEEE Signal Processing Letter, 2014. (minor revision)

[C07]. **X.J. Peng**, Y. Qiao and Q. Peng, Motion Boundary Based Sampling and 3D Co-occurrence Descriptors for Action Recognition, Image and Vision Computing (IVC), 2014. (major revision)

[C06]. **X.J. Peng**, L.M. Wang, Z.W. Cai, Y. Qiao and Q. Peng, Hybrid Super Vector with Improved Dense Trajectories for Action Recognition, notebook paper in the

Workshop of THUMOS'13 Action Recognition Challenge, ICCV, 2013. (Rank: 1/20)

[C05]. **X.J. Peng**, Q. Peng,Y. Qiao, J.Z. Chen and Afzal, Mehtab , A Study on Unsupervised Dictionary Learning and Feature Encoding for Action Classification, arXiv:1309.0309, 2013.

[C04]. **X.J. Peng**, Y. Qiao, Q. Peng and X.B. Qi, Exploring Motion Boundary Based Sampling and Spatial-temporal Context Descriptors for Action Recognition, in Proceedings of British Machine Vision Conference (BMVC), 2013.[30%]

[C03]. **X.J. Peng**, Q. Peng, Y. Qiao, X. Wu, X.B. Qi and Y.H. Liu, Exploring Dense Trajectory Feature and Encoding Methods for Human Interaction Recognition, in Proceedings of International Conference on Internet Multimedia Computing and Service (ICIMCS), 2013.[Oral: 21%]

[C02]. **X.J. Peng**, J. Chen and J. Zhang, Robust Digital Image Stabilization Based on Spatial-location-invariant Criterion, in 37th Annual Conference on IEEE Industrial Electronics Society (IECON), Melbourne, Australia, 2011.

[C01]. **X.J. Peng** and J. Zhang, Robust Real-time Electronic Image Stabilization Based on Feature Matching and Checking, Acta Photonica Sinica, 2011.

HONORS AND SCHOLARSHIPS

Winner of the THUMOS'13 Action Recognition Challenge, ICCV.	2013
PhD Outstanding Fellowships	2012 - now
Doctoral Innovation Funds of Southwest Jiaotong University	2012.11 - 2014.11
PhD 1st Fellowships	2010 - 2011
Best Bachelor Thesis of Kunming University of Sciences and Technology	2009
Excellent Undergraduate of Yunnan Province	2009
National Scholarship	2009