

Xiaojiang PENG

<http://xjpeng.weebly.com>, xiaojiangp@gmail.com, (+33)0783945563
Address: Les Marais 10, 1922, Salvan, Switzerland

- Experience**
- CVL team, Idiap, Switzerland, Postdoctoral Researcher, 2016.08 - 2017.11
- Work with Francois Fleuret.
 - **Research Work:** deep learning, face recognition.
- LEAR team, Inria Grenoble, France, Postdoctoral Researcher, 2015.03 - 2016.07
- Work with Cordelia Schmid.
 - **Research Work:** deep learning, face recognition and action recognition.
- Hengyang Normal University, Assistant Professor, 2014.02 -
- Shenzhen Institute of Advanced Technology, CAS. 2013.02 - 2014.05
- Visiting Student at Multimedia Lab supervised by Prof. QIAO Yu.
 - **Research Work:** Spatial-temporal feature design, dictionary learning, feature encoding for action recognition, deep learning.
- Education**
- Southwest Jiaotong University, Chengdu. 2010.08 - 2014.12
- PhD in Computer Application 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.
- Project**
- National Natural Science Foundation of China (No. 61502152), 2016.01 - 2018.12
- **Title:** Action analysis based on multiple views deep learning.
- Open Projects Program of National Laboratory of Pattern Recognition, 2016.01 - 2017.12
- **Title:** Deep learning for action recognition in videos.
- Doctoral Innovation Funds of Southwest Jiaotong University. 2012.11 - 2014.11
- **Title** Research on new feature and models of realistic human behavior analysis.
- Skills**
- C/C++, Python, JAVA, MATLAB, MFC, C#, OPENCV, Caffe, Theano, ActiveX**
- Selected publications**
- [C16]. **X.J. Peng**, Cordelia Schmid, Multi-region two-stream R-CNN for action detection, ECCV, 2016.
- [C15]. **X.J. Peng**, Cordelia Schmid, Encoding Feature Maps of CNNs for Action Recognition, CVPR Workshop on THUMOS'15, 2015.
- [C14]. **X.J. Peng**, L.M. Wang, Z.W. Cai and Y. Qiao, Action and Gesture Temporal Spotting with Super Vector Representation, ECCV Workshop on ChaLearn LAP 2014.

- [C13]. **X.J. Peng**, L.M. Wang, Y. Qiao and Q. Peng, Boosting VLAD with Supervised Dictionary Learning and High-Order Statistics , ECCV 2014.
- [C12]. **X.J. Peng**, C.Q. Zou, Y. Qiao and Q. Peng, Action Recognition with S-tacked Fisher Vectors, ECCV 2014. (96 citations)
- [C11]. **X.J. Peng**, L. Wang, X.X. Wang, and Y. Qiao , Bag of Visual Words and Fusion Methods for Action Recognition: Comprehensive Study and Good Practice, CVIU, 2016. (98 citations)
- [C10]. **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.
- [C09]. **X.J. Peng**, Y. Qiao and Q. Peng, Large Margin Dimensionality Reduction for Action Similarity Labeling, IEEE Signal Processing Letter, 2014.
- [C08]. **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.
- [C07]. 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.
- [C06]. 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)
- [C05]. **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.
- [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	Rank 4 in the THUMOS'15 Action Recognition Challenge, CVPR.	2015
	Winner of both track 1 and track2, and rank 4th for track3, on ChaLearn Looking at People Challenge at ECCV.	2014
	Top 5 rank in the THUMOS'13 Action Recognition Challenge, ICCV.	2013

PhD Outstanding Fellowships	2012 - 2014
Best Bachelor Thesis of Kunming University of Sciences and Technology	2009
Excellent Undergraduate of Yunnan Province	2009
National Scholarship	2009