LIMIN WANG

E-mail: wlm011@ie.cuhk.edu.hk, Homepage: http://wanglimin.github.io Room 703, Ho Sin-Hang Engineering Building The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

EDUCATION

The Chinese University of Hong Kong, Hong Kong

August 2011 - present

Ph.D. in Information Engineering, Advisor: Prof. Xiaoou Tang.

Nanjing University, Nanjing, China

September 2007 - June 2011

B.Sc. in Computer Science and Technology, Advisor: Prof. Tong Lu.

GPA: 4.53/5, Rank: 4/160.

Best Bachelor Thesis Team of Jiangsu Province (first author).

RESEARCH INTERESTS

Computer Vision: action recognition and detection, object recognition and detection.

Machine Learning: representation learning, deep learning.

RESEARCH EXPERIENCES

Multimedia Lab, The Chinese University of Hong Kong

August 2011 - present

- · We propose a sequential skeleton model to capture the dynamics of key poses for action detection.
- · We propose a hierarchical model to describe the temporal structures of complex actions such as sports.
- · We design mid-level video representations to describe the visual content for action recognition.
- · We present new feature encoding methods and supervised dictionary learning of VLAD.
- · We comprehensively study encoding methods and fusion strategies for action recognition in videos.

State Key Lab for Novel Software Tech., Nanjing University

June 2009 - June 2011

- · We design a novel method for multiclass object detection by combing local appearances and context.
- · We propose a novel framework to convert a surveillance video clip into one abstract image containing the integrated contour of interested object.

PUBLICATIONS

Technical Reports

· X. Peng, L. Wang, X. Wang and Y. Qiao, Bag of Visual Words and Fusion Methods for Action Recognition: Comprehensive Study and Good Practice, arXiv:1405.4506.

Journal Papers

· L. Wang, Y. Qiao, and X. Tang, Latent Hierarchical Model of Temporal Structure for Complex Activity Classification, in IEEE Transactions on Image Processing (TIP), Vol. 23, No. 2, 2014.

CVPR, ICCV, ECCV Papers

· L. Wang, Y. Qiao, and X. Tang, Video Action Detection with Relational Dynamic-Poselets, in European Conference on Computer Vision (ECCV), Zurich, Switzerland, 2014. (poster, 23.9 % acceptance rate)

- · X. Peng*, L. Wang*, Y. Qiao, and Q. Peng, Boosting VLAD with Supervised Dictionary Learning and High-Order Statistics, in European Conference on Computer Vision (ECCV), Zurich, Switzerland, 2014. (*indicates equal contribution, poster, 23.9 % acceptance rate)
- · Z. Cai, L. Wang, X. Peng, and Y. Qiao, Multi-view Super Vector for Action Recognition, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Columbus, Ohio, USA, 2014. (oral, 5.7 % acceptance rate)
- · L. Wang, Y. Qiao, and X. Tang, Mining Motion Atoms and Phrases for Complex Action Recognition, in IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, 2013. (poster, 25.4% acceptance rate)
- · L. Wang, Y. Qiao, and X. Tang, Motionlets: Mid-Level 3D Parts for Human Motion Recognition, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, Oregon, USA, 2013. (poster, 25.2% acceptance rate)

Other Papers

- · X. Peng, L. Wang, Y. Qiao, and Q. Peng, A Joint Evaluation of Dictionary Learning and Feature Encoding for Action Recognition, in International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 2014. (poster, 40% acceptance rate)
- · X. Wang, L. Wang, and Y. Qiao, A Comparative Study of Encoding, Pooling and Normalization Methods for Action Recognition, in Asian Conference on Computer Vision (ACCV), Daejeon, Korea, 2012. (poster, 23.2% acceptance rate)
- · L. Wang, Y. Wu, T. Lu, and K. Chen, Multiclass Object Detection by Combining Local Appearances and Context, in ACM Conference on Multimedia (ACM MM), Scottsdale, Arizona, USA, 2011. (poster, 30% acceptance rate)
- · L. Wang, Y. Wu, Z. Tian, Z. Sun, and T. Lu, A Novel Approach for Robust Surveillance Video Content Abstraction, in Pacific-Rim Conference on Multimedia (PCM), Shanghai, China, 2010.

CONTESTS

| THUMOS'14 Action Recognition Challenge (Rank 4/14, Rank 2/3) | 2014 |
|--|------|
| Chalearn Looking at People Challenge (Rank 1/2, Rank 1/6, Rank 4/17) | 2014 |
| THUMOS'13 Action Recognition Challenge (Rank 4/16) | 2013 |
| Chalearn Multi-Modal Gesture Recognition Challenge (Rank 4/54) | 2013 |

ACADEMIC SERVICE

Reviewer of IEEE Transactions on Circuits and Systems for Video Technology

HONORS AND AWARDS

| Hong Kong PhD Fellowship (114 candidates in Hong Kong) | 2011 - present |
|---|----------------|
| Best Bachelor Thesis Team of Jiangsu Province (1 recipient in Nanjing University) | 2011 |
| Outstanding Graduate of Nanjing University | 2011 |
| Excellent Undergraduate Innovation Project of Nanjing University | 2010 |
| Google Scholarship (1 recipient in CS department) | 2010 |
| National Scholarship (3 recipients in CS department) | 2009 |
| Province First Prize, China Undergraduate Mathematical Contest in Modeling | 2009 |
| Tung OOCL (Orient Overseas Container Line) Scholarship (3 recipients in CS departme | ent) 2008 |
| Outstanding Student of Nanjing University | 2008 |