LIMIN WANG

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BACKGROUND ETH Zurich, Zurich, Switzerland December 2015 - now Post-doctoral Research Fellow with Computer Vision Lab, Supervisor: Prof. Luc Van Gool. Research project: ERC Advanced Grant VarCity. The Chinese University of Hong Kong, Hong Kong August 2011 - December 2015 Ph.D. in Information Engineering with Multimedia Lab, Supervisor: Prof. Xiaoou Tang. Thesis title: Representing and Modeling Human Actions in Videos. Awarded by Hong Kong PhD Fellowship. September 2007 - June 2011 Nanjing University, Nanjing, China B.Sc. in Computer Science and Technology, Supervisor: Prof. Tong Lu. Thesis title: Multiclass Object Detection by Combining Local Appearances and Context. Best Bachelor Thesis Team of Jiangsu Province (first author). RESEARCH INTERESTS Computer Vision: action recognition and detection, scene recognition Machine Learning: representation learning, deep learning. HONORS AND AWARDS · CVPR Outstanding Reviewer 2017 · CVPR Doctoral Consortium Award (Mentor: Rahul Sukthankar) 2015 · Hong Kong PhD Fellowship (114 candidates in Hong Kong) 2011 · 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 department) 2008 · Outstanding Student of Nanjing University 2008 **CONTESTS** · ActivityNet Challenge: 1st runner-up in video classification and action detection. 2017 · ImageNet Large Scale Visual Recognition Challenge: 4th place in scene classification. 2016 · ActivityNet Large Scale Activity Recognition Challenge: 1st place in video classification. 2016 · Large-scale Scene Understanding Challenge: 1st place in scene classification. 2016 · ImageNet Large Scale Visual Recognition Challenge: 1st runner up in scene classification. 2015 · ChaLearn Looking at People Challenge, ICCV: 3rd place in cultural event recognition. 2015 · Large-scale Scene Understanding Challenge: 1st runner up in scene classification. 2015

2015

2015

THUMOS'15 Action Recognition Challenge: top performer.

· Challearn Looking at People Challenge: 1st place in action spotting, event recognition.

| · THUMOS'14 Action Recognition Challenge: 1st runner up in action detection. | 2014 |
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| ChaLearn Looking at People Challenge: 1st place in action spotting. | 2014 |
| · THUMOS'13 Action Recognition Challenge: 4th place. | 2013 |
| · ChaLearn Multi-Modal Gesture Recognition Challenge: 4th place. | 2013 |

PUBLICATIONS (GOOGLE CITATION: 1435, H-INDEX: 18)

Google Scholar: https://scholar.google.com.hk/citations?user=HEuN8PcAAAAJ&hl=en

Submitted Papers

- [R1] L. Wang, Y. Xiong, Z. Wang, Y. Qiao, D. Lin, X. Tang, and L. Van Gool, Temporal Segment Networks for Action Recognition in Videos, submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI).
- [R2] B. Zhang, L. Wang, Z. Wang, Y. Qiao, and H. Wang, Real-time Action Recognition with Deeply Connected Motion Vector CNNs, submitted to IEEE Transactions on Image Processing (TIP).

Journal Papers

- [J1] L. Wang, Z. Wang, Y. Qiao, and L. Van Gool, Transferring Deep Object and Scene Representations for Event Recognition in Still Images, in International Journal of Computer Vision (IJCV), 2017.
- [J2] L. Wang, S. Guo, W. Huang, Y. Xiong, and Y. Qiao, Knowledge Guided Disambiguation for Large-Scale Scene Recognition with Multi-resolution CNNs, in IEEE Transactions on Image Processing (TIP), Vol. 26, No. 4, 2017.
- [J3] Z. Wang, L. Wang, Y. Wang, B. Zhang, and Y. Qiao, Weakly Supervised PatchNets: Describing and Aggregating Local Patches for Scene Recognition, in IEEE Transactions on Image Processing (TIP), Vol. 26, No. 4, 2017.
- [J4] S. Guo, W. Huang, L. Wang, and Y. Qiao, Locally Supervised Deep Hybrid Model for Scene Recognition, in IEEE Transactions on Image Processing (TIP), Vol. 26, No. 2, 2017.
- [J5] Z. Yuan, H. Wang, L. Wang, T. Lu, P. Shivakumara, and C. L. Tan, Modeling Spatial Layout for Scene Image Understanding via a Novel Multiscale Sum-Product Network, in Expert Systems With Applications (ESWA), Vol. 63, 2016.
- [J6] X. Peng, L. Wang, X. Wang, and Y. Qiao, Bag of Visual Words and Fusion Methods for Action Recognition: Comprehensive Study and Good Practice, in Computer Vision and Image Understanding (CVIU), Vol. 150, 2016.
- [J7] L. Wang, Y. Qiao, and X. Tang, MoFAP: A Multi-Level Representation for Action Recognition, in International Journal of Computer Vision (IJCV), Vol. 119, No. 3, 2016.
- [J8] 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.

Top-Tier Vision Conference Papers

- [C1] Y. Zhao, Y. Xiong, L. Wang, Z. Wu, X. Tang, and D. Lin, Temporal Action Detection with Structured Segment Networks, in IEEE International Conference on Computer Vision (ICCV), Venice, Italy, 2017.
- [C2] L. Wang, Y. Xiong, D. Lin, and L. Van Gool, UntrimmedNets for Weakly Supervised Action Recognition and Detection, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Honolulu, Hawaii, USA, 2017.

- [C3] J. Song, L. Wang, L. Van Gool, and O. Hilliges, Thin-Slicing Network: A Deep Structural Model for Human Pose Estimation in Videos, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Honolulu, Hawaii, USA, 2017 (oral presentation).
- [C4] L. Wang, Y. Xiong, Z. Wang, Y. Qiao, D. Lin, X. Tang, and L. Van Gool, Temporal Segment Networks: Towards Good Practices for Deep Action Recognition, in European Conference on Computer Vision (ECCV), Amsterdam, Netherlands, 2016.
- [C5] L. Wang, Y. Qiao, X. Tang, and L. Van Gool, Actionness Estimation Using Hybrid Fully Convolutional Networks, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Las Vegas, Nevada, USA, 2016.
- [C6] B. Zhang, L. Wang, Y. Qiao, Z. Wang, and H. Wang, Real-time Action Recognition with Enhanced Motion Vector CNNs, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Las Vegas, Nevada, USA, 2016.
- [C7] L. Wang, Y. Qiao, and X. Tang, Action Recognition with Trajectory-Pooled Deep-Convolutional Descriptors, in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Boston, Massachusetts USA, 2015.
- [C8] L. Wang, Y. Qiao, and X. Tang, Video Action Detection with Relational Dynamic-Poselets, in European Conference on Computer Vision (ECCV), Zurich, Switzerland, 2014.
- [C9] 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. (first two authors contribute equally)
- [C10] 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 presentation).
- [C11] 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.
- [C12] 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.

Other Conference Papers

- [C1] Y. Wang, J. Song, L. Wang, L. Van Gool, and O. Hilliges, Two-Stream SR-CNNs for Action Recognition in Videos, in British Machine Vision Conference (BMVC), York, UK, 2016.
- [C2] Z. Wang, Y. Wang, L. Wang, and Y. Qiao, Codebook Enhancement of VLAD Representation for Visual Recognition, in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Shanghai, China, 2016.
- [C3] 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.
- [C4] 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.
- [C5] 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.

[C6] 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.

STUDENTS

- · Jie Song, now PhD student at ETH Zurich.
- · Yifan Wang, now PhD student at ETH Zurich.
- · Bowen Zhang, now PhD student at University of Southern California.
- · Zhe Wang, now PhD student at University of California, Irvine.
- · Zhuowei Cai, now working at Google.

TEACHING ASSISTANT

· ENGG2430, Probability and Statistics for Engineers

2015

· ENGG1100, Introduction to Engineering Design

2014

TALKS

- · Towards Efficient End-to-End Architectures for Action Recognition and Detection in Videos Invited talk at Workshop on Frontiers of Video Technology, Adobe Research, 2017
- · Object-Scene Convolutional Neural Networks for Event Recognition in Images
 Talk at ChaLearn Looking at People Challenge, CVPR Workshop, 2015
- · Exploring Fisher Vector and Deep Networks for Action Spotting
 Talk at ChaLearn Looking at People Challenge, CVPR Workshop, 2015

ACADEMIC SERVICE

Journal Reviewer

- · Reviewer of IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)
- · Reviewer of IEEE Transactions on Image Processing (T-IP)
- · Reviewer of IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)
- · Reviewer of IEEE Transactions on Multimedia (T-MM)
- · Reviewer of IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)
- · Reviewer of Computer Vision and Image Understanding (CVIU)
- · Reviewer of Image and Vision Computing (IVC)
- · Reviewer of Pattern Recognition (PR)
- · Reviewer of Pattern Recognition Letter (PRL)
- · Reviewer of Machine Vision and Applications (MVA)
- · Reviewer of Journal of Visual Communication and Image Representation (JVCI)

Program Committee and Conference Reviewer

- · Program Chair of CVPR17 workshop on learning from web data
- · Program Committee of CVPR15, ICCV15 workshop on ChaLearn LAP
- · Program Committee of ECCV16 workshop on TASK-CV
- · Reviewer of European Conference on Computer Vision (ECCV), 2016
- · Reviewer of Asian Conference on Computer Vision (ACCV), 2016
- · Reviewer of International Conference on Pattern Recognition (ICPR), 2016
- · Reviewer of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017

- · Reviewer of IEEE International Conference on Computer Vision (ICCV), 2017
- \cdot Reviewer of IEEE International Conference on Automatic Face and Gesture Recognition (**FG**), 2017