

# Liang Zheng

University of Texas at San Antonio  
Department of Computer Science  
Texas 78256, USA

Phone: 210-473-2621  
Email: liangzheng06@gmail.com  
Homepage: <http://www.liangzheng.com.cn/>

## Education

Ph.D. Electronic Engineering, Tsinghua University, 2010.8-2015.7.

B.S. School of Life Science, Tsinghua University, 2006.8-2010.7.

## Experience

University of Texas at San Antonio, Post-doc, 2015.10-

Microsoft Research Asia, Intern, 2014.12-2015.07.

University of Texas at San Antonio, Visiting Scholar, 2014.01-2014.07.

## Fields of Research Interest

Image Search, Person Re-identification, Deep Learning.

## Publications

### *Conference Papers*

**Liang Zheng**, Liyue Shen, Lu Tian, Shengjin Wang, Jingdong Wang, and Qi Tian, "Scalable Person Re-identification: A Benchmark", International Conference on Computer Vision (ICCV) 2015.

**Liang Zheng**, Shengjin Wang, Lu Tian, Fei He, Ziqiong Liu, and Qi Tian, "Query-Adaptive Late Fusion for Image Search and Person Re-identification", International Conference on Computer Vision and Pattern Recognition (CVPR) 2015.

**Liang Zheng**, Shengjin Wang, Ziqiong Liu, and Qi Tian, "Packing and Padding: Coupled Multi-index for Accurate Image Retrieval", International Conference on Computer Vision and Pattern Recognition (CVPR) 2014.

**Liang Zheng**, Shengjin Wang, Wengang Zhou, and Qi Tian, "Bayes Merging of Multiple Vocabularies for Scalable Image Retrieval", International Conference on Computer Vision and Pattern Recognition (CVPR) 2014.

**Liang Zheng**, Shengjin Wang, Ziqiong Liu, and Qi Tian, " $\mathcal{L}_p$ -norm IDF for Large Scale Image Search", International Conference on Computer Vision and Pattern Recognition (CVPR) 2013.

### Journal Articles

**Liang Zheng**, Shengjin Wang, Ziqiong Liu, and Qi Tian, "Fast Image Retrieval: Query Pruning and Early Termination", *IEEE Transactions on Multimedia*, Vol. 17, Issue 5, pp. 648-659, 2015.

**Liang Zheng**, Shengjin Wang, and Qi Tian, " $\mathcal{L}_p$ -norm IDF for Scalable Image Retrieval", *IEEE Transactions on Image Processing*, Vol. 23, Issue 8, pp. 3604-3617, 2014.

**Liang Zheng**, Shengjin Wang, and Qi Tian, "Coupled Binary Embedding for Large-scale Image Retrieval", *IEEE Transactions on Image Processing*, Vol. 23, Issue 8, pp. 3368-3380, 2014.

**Liang Zheng**, Shengjin Wang, Peizhen Guo, Hanyue Liang, and Qi Tian, "Tensor Index for Large Scale Image Retrieval", *Multimedia Systems*, 2014.

**Liang Zheng**, Shengjin Wang, "Visual Phraselet: Refining Spatial Constraints for Large Scale Image Search", *IEEE Signal Processing Letters*, Vol. 20, Issue 4, pp. 391-394, 2013.

### Other Publications

Liang Zheng, Taiqing Wang, Shengjin Wang, and Xiaoqing Ding, "DSW feature based Hidden Markov Model: An application on object identification", *International Conference of Soft Computing and Pattern Recognition (SoCPar)*, 2011.

Guoliang Chai, Changxin Ma, Kai Bao, Liang Zheng, Xinquan Wang, Zhirong Sun, Emili Salo, Teresa Adell, and Wei Wu, "Complete Functional Segregation of Planarian  $\beta$ -Catenin-1 and -2 in Mediating Wnt Signaling and Cell Adhesion", *Journal of Biological Chemistry*, Vol. 285, Issue 31, pp. 24120-24130, 2010.

Changxin Ma, Xiaoran Wang, Shuizhou Yu, Guoliang Chai, Hanxia Su, Liang Zheng, and Wei Wu, "A Small Scale Expression Screen Identifies Tissue Specific Markers in the *Dugesia Japonica* Strain Pek-1", *Journal of Genetics and Genomics*, Vol. 37, Issue 9, pp. 621-635, 2010.

### Technical Reports/Under Review

Liang Zheng, Shengjin Wang, Fei He, and Qi Tian, "Deep Embedding: Accurate Image Search with Contextual Evidences", *Technical Report*, 2015.

Liang Zheng, Zhi Bie, Yifan Sun, Jingdong Wang, Shengjin Wang, and Qi Tian, "Video Re-identification: Benchmark and Baselines", submitted to CVPR 2016.

Liang Zheng, Yali Zhao, Jingdong Wang, Shengjin Wang, and Qi Tian, "Good Practice in CNN Feature Transfer", submitted to CVPR 2016.

### Fellowships & Awards

ArXiv paper "Person Re-identification Meets Image Search" is covered in "MIT Technology Review" as "The best of the rest from the Physics arXiv preprint server".

Stars of Tomorrow, Microsoft Research Asia, 2015.

Promising Young Researchers, Department of Electronic Engineering, 2015.

Promising Young Researchers, Department of Electronic Engineering, 2014.

National Scholarship, 2014

Outstanding Graduate of Tsinghua University, 2010

National Scholarship, 2006, 2007, 2008

## Service

### *Technical Program Committee Member*

ACM International Conference on Multimedia (ACM MM), 2014.

ACM International Conference on Image Processing (ICIP), 2015.

### *Reviewer for Journals*

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

IEEE Transactions on Multimedia (TMM)

IEEE Transactions on Big Data (TBD)

IEEE Signal Processing Letters (SPL)

Neurocomputing

Machine Vision and Applications (MVA)

Multimedia Systems

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