BO ZHAO

Ph.D. Candidate, Computer Science

Southwest Jiaotong University, P.R.China

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EDUCATION

National University of Singapore, Singapore	*Sep. 2015 – Present*
Visiting Scholar	
Southwest Jiaotong University, China	*Sep. 2012 – Present*
Ph.D. Candidate in Computer Science, Overall GPA: 3.36/4	
Southwest Jiaotong University, China	*Sep. 2010 – Jun. 2012*
M.S. in Computer Science*, Overall GPA: 3.51/4	
Southwest Jiaotong University, China	*Sep. 2006 – Jun. 2010*
B.S. in Computer Science, Overall GPA: 3.67/4	
I-Shou University, Taiwan	*Sep. 2009 – Jan. 2010*
Exchange Student in Computer Science, Overall GPA: 3.65/4	

RESEARCH INTERESTS

Deep Learning, Computer Vision, Image Segmentation
Multimedia Information Retrieval, Data Mining

KEY COMPETENCIES

- Four years' research experience on Multimedia, Computer Vision, Deep Learning, Pattern Recognition.

- Specific research interests involve fine-grained image classification, image segmentation, information retrieval with deep learning techniques including CNN and RNN.

- Good knowledge about deep learning models such as Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN) and Long-Short Term Memory (LSTM). Good understanding of traditional machine learning techniques such as supervised learning models (e.g. SVM, KNN).

- Extensive experience in Deep Learning open-source platforms including Caffe, Theano, Torch.

PUBLICATIONS

1. **Bo Zhao**, Jiashi Feng, Xiao Wu, Shuicheng Yan "Memory-Augmented Attribute Manipulation Networks for Fashion Search," Submitted to IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.

2. **Bo Zhao**, Jiashi Feng, Xiao Wu, Shuicheng Yan "A Survey on Deep Learning-Based Fine-Grained Object Classification and Semantic Segmentation," International Journal of Automation and Computing, 2017. (EI Journal)

3. **Bo Zhao**, Xiao Wu, Jiashi Feng, Qiang Peng, Shuicheng Yan "Diversified Visual Attention Networks for Fine-Grained Object Classification," IEEE Transaction on Multimedia (SCI)

4. **Bo Zhao**, Xiao Wu, Qiang Peng, Shuicheng Yan "Clothing Cosegmentation for Shopping Images," IEEE Transaction on Multimedia, 2016 (SCI)

5. **Bo Zhao**, Yan Zhu, "Formalizing and Validating the Web Quality Model for Web Source Quality Evaluation," Expert Systems with Applications, 41(7):3306-3312, 2014. (SCI)

6. Xiao Wu, **Bo Zhao**, Ling-Ling Liang, Qiang Peng, "Clothing Extraction by Coarse Region Localization and Fine Foreground/Background Estimation," International Conference on Multimedia Modeling (MMM), Huangshan, China, January 2013. (EI Conference)

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*Transfered to combined Master/Ph.D program in Sep. 2012

7. Yan Zhu, **Bo Zhao**, "Formalization and Goodness-of-fit Analysis of Web Quality Model," Journal of Southwest Jiaotong University, 47(2):306-312, 2012. (EI Journal)

8. Zhao-Rui Liu, Xiao Wu, **Bo Zhao**, "Clothing Extraction Using Region-based Segmentation and Pixel-level Refinement," IEEE International Symposium on Multimedia (ISM), Tai-chung, Taiwan, December 2014. (EI Conference)

PATENTS

1. Xiao Wu, **Bo Zhao**, Qiang Peng, "A Cosegmentation Method for Clothing Shopping Images."

2. Xiao Wu, **Bo Zhao**, Ling-ling Liang, Qiang Peng, "Method for Detecting and Extracting Main Target in Cluttered Image."

3. Xiao Wu, **Bo Zhao**, Ling-ling Liang, Qiang Peng, "Target Clothing Extraction Method Aiming at Shopping Image Retrieval."

RESEARCH PROJECTS

Sichuan Provincial Science and Technology Innovation Seeding Fund　　**PI**
Clothing Visual Search Based on Image Understanding　　*Oct. 2014 – Dec. 2015*

Sichuan Provincial Science and Technology Innovation Seeding Fund　　**PI**
Cosegmentation for Clothing Images　　*Oct. 2012 – Dec. 2013*

National Natural Science Foundation of China　　Participant
Cluttered Clothing Image Retrieval and Recommendation　　*Jan. 2014 – Dec. 2017*

Sichuan Provincial Science Fund for Distinguished Young Scholars　　Participant
Target Extraction of Cluttered Shopping Images　　*Jan. 2013 – Dec. 2015*

Sichuan Provincial Science Fund for Distinguished Young Scholars　　Participant
Content-Based Shopping Image Retrieval　　*Jan. 2012 – Dec. 2013*

National Key Laboratory Project　　Participant
Massive High-speed Train Data Management System　　*Oct. 2010 – Jan. 2012*

National College Student Innovation and Practice Project　　**Co-PI**
Applications of NS2 in the Teaching of Network Engineering　　*Sep. 2008 – Jun. 2009*

HONORS AND AWARDS

Scholarship from China Scholarship Council	*May 2015*
National Scholarship for Graduate Students	*Oct. 2014*
SWJTU Excellent Undergraduate	*Jun. 2010*
National Scholarship	*Nov. 2008*
National Scholarship	*Nov. 2007*

REFEREES

Xiao Wu
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Jiashi Feng
Assistant Professor at Department of Electronic and Computer Engineering, NUS
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