

BO ZHAO

Ph.D. Candidate, Computer Science

Southwest Jiaotong University, P.R.China

Email: zhaobo.cs@gmail.com Homepage: www.zhaobo.me

EDUCATION

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

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**, Xiao Wu, Zhi-Qi Cheng, Hao Liu, Jiashi Feng, "Multi-View Image Generation from a Single-View," submitted to International Conference on Computer Vision (ICCV), 2017.
2. **Bo Zhao**, Jiashi Feng, Xiao Wu, Shuicheng Yan, "Memory-Augmented Attribute Manipulation Networks for Fashion Search," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.
3. **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)
4. **Bo Zhao**, Xiao Wu, Jiashi Feng, Qiang Peng, Shuicheng Yan "Diversified Visual Attention Networks for Fine-Grained Object Classification," IEEE Transaction on Multimedia (SCI)
5. **Bo Zhao**, Xiao Wu, Qiang Peng, Shuicheng Yan "Clothing Cosegmentation for Shopping Images," IEEE Transaction on Multimedia, 2016 (SCI)
6. **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)

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

7. 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)
8. 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)
9. 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 <i>Clothing Visual Search Based on Image Understanding</i>	PI <i>Oct. 2014 – Dec. 2015</i>
Sichuan Provincial Science and Technology Innovation Seeding Fund <i>Cosegmentation for Clothing Images</i>	PI <i>Oct. 2012 – Dec. 2013</i>
National Natural Science Foundation of China <i>Cluttered Clothing Image Retrieval and Recommendation</i>	Participant <i>Jan. 2014 – Dec. 2017</i>
Sichuan Provincial Science Fund for Distinguished Young Scholars <i>Target Extraction of Cluttered Shopping Images</i>	Participant <i>Jan. 2013 – Dec. 2015</i>
Sichuan Provincial Science Fund for Distinguished Young Scholars <i>Content-Based Shopping Image Retrieval</i>	Participant <i>Jan. 2012 – Dec. 2013</i>
National Key Laboratory Project <i>Massive High-speed Train Data Management System</i>	Participant <i>Oct. 2010 – Jan. 2012</i>
National College Student Innovation and Practice Project <i>Applications of NS2 in the Teaching of Network Engineering</i>	Co-PI <i>Sep. 2008 – Jun. 2009</i>

HONORS AND AWARDS

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

REFEREES

Xiao Wu
Professor at Department of Computer Science, SWJTU
Email: wuxiaohk@gmail.com

Jiashi Feng
Assistant Professor at Department of Electronic and Computer Engineering, NUS
Email: elefjia@nus.edu.sg