

BO ZHAO

Ph.D. Candidate, Computer Science

Southwest Jiaotong University, P.R.China

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EDUCATION

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| 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**, Jiashi Feng, Xiao Wu, Shuicheng Yan, "Memory-Augmented Attribute Manipulation Networks for Fashion Search," 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)

*Transferred 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

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| 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

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| 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

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Jiashi Feng

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