BO ZHAO

Ph.D. Candidate, Computer Science Southwest Jiaotong University, P.R.China

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EDUCATION

$Sep. \ 2015-Present$
Sep. 2012-Present
Sep.2010-Jun.2012
Sep. 2006 – $Jun. 2010$
Sep.2009-Jan.2010

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), unsupervised clustering methods, reinforcement learning and dimension reduction methods (e.g. PCA, LDA).
- 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.
- 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)

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

- 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)
- 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 Cosegmentation for Clothing Images	PI 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 Massive High-speed Train Data Management System	Participant Oct. 2010 – Jan. 2012
National College Student Innovation and Practice Project Applications of NS2 in the Teaching of Network Engineering	Co-PI 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

Professor at Department of Computer Science, SWJTU

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Jiashi Feng

Assistant Professor at Department of Electronic and Computer Engineering, NUS

Email: elefjia@nus.edu.sg