

Wenbin Li

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- RESEARCH INTEREST** Computer Vision: material recognition, object recognition, activity recognition
Robotics: perception and manipulation
Machine Learning: deep learning, transfer learning and reinforcement learning
- EDUCATION** *PhD student*, Computer Vision & Robotics 2013-present
Saarland University & Max Planck Institute for Informatics, Germany
- Master of Science*, Computer Science 2010-2013
Saarland University, Germany
Thesis title: Multi-scale Feature Learning for Material Recognition
- Bachelor of Science*, Science and Technology of Intelligence 2006-2010
Beijing University of Posts and Telecommunications, China
Specialization: Statistical Natural Language Processing
- COMPUTER SKILLS** Python, Matlab, R, Perl, Bash, C/C++,
Java&Android, Objective C&iOS,
OpenCV, PCL, ROS, Theano, Caffe
- LANGUAGES** Chinese (native), English (fluent), German (basic), Japanese (basic)
- PROFESSIONAL EXPERIENCE** *Data Mining Engineer*, Jun, 2010- July, 2010
Funshion, Beijing, China
- ACADEMIC EXPERIENCE** *Teaching Assistant* Oct, 2014- Feb, 2015
Machine Learning, Saarland University, Germany
- Research Assistant* Mar, 2012- Feb, 2013
Computer Vision and Multimodal Computing Department, Max Planck Institute for Informatics, Germany
Research Topic: Unsupervised feature learning for material recognition
- Research Assistant* Nov, 2011- Mar, 2012
Computer Graphics Department, Max Planck Institute for Informatics, Germany
Research Topic: Text entry
- Research Assistant* Mar, 2011- Nov, 2011
Computer Vision and Multimodal Computing Department, Max Planck Institute for Informatics, Germany
Research Topic: Material recognition
- PUBLICATION** [1] Wenbin Li, Aleš Leonardis and Mario Fritz. *Visual Stability Prediction for Robotic Manipulation*.
IEEE International Conference on Robotics and Automation (ICRA), 2017.

- [2] Wenbin Li, Aleš Leonardis and Mario Fritz. *Visual Stability Prediction and Its Application to Manipulation*. Advances in Neural Information Processing Systems (NIPS) Workshop on Intuitive Physics. 2016. (Extended Abstract); AAAI Spring Symposium Series: Interactive Multi-Sensory Object Perception for Embodied Agents, 2017. (Extended Abstract) Technical Report, 2016. (arXiv:1609.04861, full Version)
- [3] Wenbin Li, Seyedmajid Azimi, Aleš Leonardis and Mario Fritz. *To Fall Or Not To Fall: A Visual Approach to Physical Stability Prediction*. Technical Report, 2016. (arXiv:1604.00066. 2016)
- [4] Wenbin Li and Mario Fritz. *Recognition of Ongoing Complex Activities by Sequence Prediction over a Hierarchical Label Space*. In IEEE Winter Conference on Applications of Computer Vision (WACV) 2016.
- [5] Wenbin Li and Mario Fritz. *Teaching Robots the Use of Human Tools from Demonstration with Non-Dexterous End-Effectors*. In IEEE RAS International Conference on Humanoid Robots (HUMANOIDS) 2015.
- [6] Wenbin Li. *Learning Multi-scale Representations for Material Classification*. Pattern Recognition. Springer International Publishing, 2014. 757-764.
- [7] Antti Oulasvirta, Anna Reichel, Wenbin Li, Yan Zhang, Myroslav Bachynskyi, Keith Vertanen, and Per Ola Kristensson. *Improving two-thumb text entry on touchscreen devices*. In SIGCHI Conference on Human Factors in Computing Systems (CHI) 2013.
- [8] Wenbin Li and Mario Fritz. *Recognizing materials from virtual examples* In European Conference on Computer Vision (ECCV) 2012.

AWARDS

- Scholarship, International Max Planck Research School for Computer Science
2013-2015
- Scholarship, Saarbrücken Graduate School of Computer Science, Saarland University
2010-2012
- Scholarship for excellence in academic performance, Beijing University of Posts and Telecommunications
2007-2009
- First prize and most creative award for customized Firefox web browser designing competition (among 11 teams from top universities in China)
2008