Wenbin Li

https://wenbinli.github.io

EDUCATION

Saarland Univ. & MPI-INF.
Doctor of Engineering
Dissertation: *From Perception over Anticipation to Manipulation.*
2018 | Saarbrücken, DE

Saarland Univ.
MSc in Computer Science
Thesis: *Multi-scale Feature Learning for Material Recognition.*
2013 | Saarbrücken, DE

Beijing Univ. of Posts & Telecom.
B.Eng. in AI
2010| Beijing, CN

RESEARCH

Computer Vision
Material Recognition
Object Recognition
Activity Recognition

Robotics
Perception and Manipulation

Machine Learning
Deep Learning
Transfer Learning
Reinforcement Learning

SKILLS

Programming
Python • MATLAB • R • C/C++ •
Perl • Bash •
ROS • PCL • OpenCV •
Theano • Tensorflow • PyTorch •

PROFESSIONAL

Continental Automotive GmbH | Deep Learning Specialist
June 2018 - Present | Regensburg, DE

Funshion | Data Mining Engineer
June 2010 - July 2010 | Beijing, CN

ACADEMIC

Saarland University | Teaching Assistant
Oct 2014 – Feb 2015 | Saarbrücken, DE
Machine Learning (Main Course).

CV &Multimodal Computing, MPI-INF | Research Assistant
Mar 2012 – Feb 2013 | Saarbrücken, DE
Unsupervised feature learning for material recognition.

Computer Graphics, MPI-INF | Research Assistant
Nov 2011 – Mar 2012 | Saarbrücken, DE
Text entry, Computer-Human Interaction

CV &Multimodal Computing, MPI-INF | Research Assistant
Mar 2011 – Nov 2011 | Saarbrücken, DE
Material recognition.

SELECTED PUBLICATIONS

[1] W. Li. Learning multi-scale representations for material classification. In *GCPR*. Springer, 2014.

[2] W. Li and M. Fritz. Recognizing materials from virtual examples. In *ECCV*. Springer, 2012.

[3] W. Li and M. Fritz. Teaching robots the use of human tools from demonstration with non-dexterous end-effectors. In *Humanoids*. IEEE, 2015.

[4] W. Li and M. Fritz. Recognition of ongoing complex activities by sequence prediction over a hierarchical label space. In *WACV*. IEEE, 2016.

[5] W. Li, A. Leonardis, J. Bohg, and M. Fritz. Learning manipulation under physics constraints with visual perception. *arXiv preprint arXiv:1904.09860*, 2019.

[6] W. Li, A. Leonardis, and M. Fritz. Visual stability prediction and its application to manipulation. In *2017 AAAI Spring Symposium Series*, 2017.

[7] W. Li, A. Leonardis, and M. Fritz. Visual stability prediction for robotic manipulation. In *ICRA*. IEEE, 2017.

[8] A. Oulasvirta, A. Reichel, W. Li, Y. Zhang, M. Bachynskyi, K. Vertanen, and P. O. Kristensson. Improving two-thumb text entry on touchscreen devices. In *CHI*. ACM, 2013.