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Education

PhD Student Wuhan University

STRUCTURE-FROM-MOTION, JUNCTION DETECTION AND DEEP LEARNING

Wuhan, China

Sep. 2016 - present

Master Student Wuhan University

STRUCTURE-FROM-MOTION, MULTIVIEW GEOMETRY Wuhan, China

Sep. 2014 - Jun. 2016

Research Intern Wuhan University

POLAR-SAR IMAGE DENOISING Wuhan, China

Nov. 2013 - Aug. 2014

Bachelor's Degree in Science Wuhan University

INFORMATION AND COMPUTATIONAL SCIENCE Wuhan, China

Sep. 2010 - Jun. 2014

Honors & Awards ___

2018	Academic Innovation Award, Second Prize	Wuhan University
2018	Scholarship for Graduate Students Second Prize	Wuhan University
2016	Scholarship for Graduate Students Second Prize	Wuhan University
2015	Scholarship for Graduate Students Second Prize	Wuhan University
2014	Scholarship for Excellent Freshman	Wuhan University
2013	RenMin Scholarship Second Prize	Wuhan University
2012	Meritorious Winner, The American Mathematical Contest in Modeling	American Consortium
		for Math. and Its Appl.
2009	First Prize National Olympiad in Informatics in Provinces	China Computer
		Federation (CCF)
2008	Second Prize National Olympiad in Informatics in Provinces	China Computer
		Federation (CCF)

Academic Publications

- [1] Nan Xue, Song Bai, Fudong Wang, Gui-Song Xia, Tianfu Wu, and Liangpei Zhang. Learning attraction field representation for robust line segment detection. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- [2] Jian Ding, Nan Xue, Yang Long, Gui-Song Xia, and Qikai Lu. Learning roi transformer for detecting oriented objects in aerial images. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.
- [3] Zhu-Cun Xue, Nan Xue, Gui-Song Xia, and Weiming Shen. Learning to calibrate straight lines for fisheye image rectification. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- [4] Fudong Wang, Nan Xue, Yipeng Zhang, Xiang Bai, and Gui-Song Xia. Adaptively transforming graph matching. In the European Conference on Computer Vision (ECCV), 2018.
- [5] Nan Xue, Gui-Song Xia, Xiang Bai, Liangpei Zhang, and Weiming Shen. Anisotropic-scale junction detection and matching for indoor images. IEEE Transactions on Image Processing, 27(1):79-91, 2018.

- [6] Tian-Zhu Xiang, **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Image stitching based on anisotropic-scale junction. *Journal of Signal Processing*, 33(4):465–471, 2017.
- [7] Bowen Xu, **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Finding edges of buildings via a junction process in high-resolution remotely sensed images. In *the IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2015.
- [8] Gui-Song Xia, **Nan Xue**, Zifeng Wang, and Liangpei Zhang. Anisotropic diffusion on complex tensor fields for polsar image filtering. *Geometrics and Information Science of Wuhan University (in Chinese)*, 2015.
- [9] **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Anisotropic diffusion on complex tensor fields for polsar image filtering. In *the IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2014.
- [10] Gang Liu, Gui-Song Xia, Wen Yang, and **Nan Xue**. Sar image segmentation via non-local active contours. In the IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2014.

Skills_

COMPUTER SCIENCE

- Good at C, C++, CUDA, Matlab and Python.
- Familiar with Mathematic and Maple.
- Experienced in developing algorithms on Unix/Linux with CMake and Make.
- Experienced in writing academic paper by using LaTeX

DEEP LEARNING

• Good at TensorFlow, CaffeLibrary and PyTorch

MATHEMATICS

Calculus and Analysis, Linear Algebra and Abstract Algebra, Probability and Statistics, Differential Equations, Differential Geometry, Multiview Geometry, Variational Calculus, Numerical Analysis and Optimization.

INFORMATICS

• Image Processing, Computer Vision, Scientific Computing, Data Structure, Machine Learning

LANGUAGE

- Mandarin Chinese (mother tongue)
- English (Fluent)