Fudong Wang

PhD Candidate in Computer Vision

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Education

PhD Student — *LIESMARS, Wuhan University*, *Wuhan, China*

Graph Matching, Mesh Generation from Point Clouds

Sep. 2018 - Present

Master Student — *LIESMARS, Wuhan University*, *Wuhan, China*

Mesh Generation, Texture Mapping, Graph Matching

Sep. 2016 - June 2018

Research Intern — *LIESMARS, Wuhan University*, *Wuhan, China*

Contour Grouping, Style Transferring

Oct. 2015 - Aug. 2016

Bachelor's Degree in Science — *School of Mathematics and Statistics, Wuhan University*, *Wuhan, China*

Basic Mathematics in Hongyi Project

Sep. 2012 - June 2016

Honors & Awards

2016	**Scholarship for Excellent Freshman**, First Prize	*Wuhan University*
2015	**Hongyi Scholarship**, Third Prize	*Wuhan University*
2014	**Hongyi Scholarship**, Third Prize	*Wuhan University*
2013	**Hongyi Scholarship**, Third Prize	*Wuhan University*
2011	**Second Prize**, National High School Mathematics League (Chongqing)	*Chinese Mathematical Society (CMS)*

Academic Publications

[1] **Fudong Wang**, Nan Xue, Yipeng Zhang, Gui-Song Xia, and Marcello Pelillo. A functional representation for graph matching. *IEEE Trans. on Pattern Analysis and Machine Intelligence (***TPAMI***)*, 2019.

[2] **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.

[3] Nan Xue, Song Bai, **Fudong Wang**, Gui-Song Xia, Tianfu Wu, Liangpei Zhang, and Philip Torr. Learning regional attraction for line segment detection. *IEEE Trans. on Pattern Analysis and Machine Intelligence (***TPAMI***)*, 2019.

[4] 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.

Skills

Programming

- Familiar with C/C++, Cuda, Matlab and Python/Pytorch.
- Experienced in developing projects on Linux with CMake and VSCode.
- Experienced in writing academic paper by LaTeX.

Mathematics

- Mathematics Analysis, Advanced Linear Algebra, Abstract Algebra, Probability and Statistics, Ordinary/Partial Differential Equation, Differential Geometry/Manifold, Real/Complex Analysis, Functional Analysis, Numerical Analysis and Optimization.

Research Experiences & Interests

Research Experiences

Mesh Generation

Deep Learning for 3D Geometry.

Research Interests

Computer Vision

Engineering *Today*

- SFM
- MVS
- Texturing