



Zhiwen Fan

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Research Interests

Machine Learning, Computer Vision, MRI Reconstruction & Segmentation, Deraining & Vehicle Detection, Semi-Supervised learning & Video Segmentation.

Education

Xiamen University	Xiamen, Fujian, China	09/2016-Present
Master Student in Department of Communication Engineering		
Advisor: Prof. Xinghao Ding	GPA: 3.81/4.0	Rank:5/62
Shandong Agriculture University	Taian, Shandong, China	09/2012-07/2016
B.S. in Department of Electrical Engineering		
GPA: 3.78/5.0	Rank:7/88	

Professional Experiences

Microsoft Research Asia	Beijing, China	06/2018-Present
Student Intern at Microsoft Research Asia		
Student intern with Dr. Xun Guo.		
Researches with emphasis on Semi-supervised learning, Video Segmentation.		
Xiamen University	Xiamen, Fujian, China	09/2016-Present
Research & Teaching Assistant at Department of Communication Engineering		
Research assistant of Prof. Xinghao Ding.		
Mainly focus on building a light weight model for Image Restoration, incorporating Semantic segmentation/Vehicle Detection into deep models.		

Publication

Z. Fan, H. Wu(co-first author), X. Fu, Y. Huang and X. Ding. Residual-Guide Feature Fusion Network for Single Image Deraining , ACM Multimedia (ACM MM), Seoul, South Korea, 2018.

L. Sun, **Z. Fan**(co-first author), Y. Huang, X. Ding and J. Paisley. Compressed sensing MRI using a recursive dilated network, AAAI Conference on Artificial Intelligence (AAAI), New Orleans, LA, USA, 2018.

X. Fu, **Z. Fan**, M. Ling, Y. Huang and X. Ding. Two-step approach for single underwater image enhancement, International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Xiamen, China, 2017.

One paper submitted to European Conference on Computer Vision(ECCV).

One paper submitted to Transactions on Image Processing(TIP).

Honors & Awards

The First Prize Scholarship (2017,2016); Qijun Scholarship for Encouragement(2017)

Outstanding Graduates of Shandong Province(Top 5% Student)(2016)
National Third Prize of iCAN International Contest of innovAtioN(2015)
National Third Prize of The Challenge Cup(2015);Individual scholarships(2014)
The First Prize Scholarship (2014);The Second Prize Scholarship (2013,2015)

Skills

TOEFL: 98; GRE: 310+3.5; CET6: 537; Third-level Certificate for National Computer
Computer Skills:Proficient in Python, Tensorflow, Matlab, C/C++

Personal Website

<https://zhiwenfan.github.io/>

Reference

Xinghao Ding

Professor, Department of Communication Engineering, Xiamen University.

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John Paisley

Associate professor, Department of Electrical Engineering, Columbia University.

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