



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[^], L. Sun[^], X. Ding, Y. Huang, C. Cai and J. Paisley. A Segmentation-aware Deep Fusion Network for Compressed Sensing MRI , European Conference on Computer Vision (ECCV), Munich, Germany, 2018.

Z. Fan[^], H. Wu[^], 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**[^], 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 Transactions on Image Processing(TIP).

[^] denotes joint 1st authors

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

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John Paisley

Associate professor, Department of Electrical Engineering, Columbia University.
Email: jpaisley@columbia.edu