Zhiwen Fan(樊志文)

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Department of Communication Engineering
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Research Interests

Machine Learning, Computer Vision, MRI Reconstruction & Segmentation, Deraining & Vehicle Detection, Semantic Segmentation & Domain Adaptation.

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
Research Intern at Microsoft Research Asia

Research Intern with Dr. Xun Guo& Dr. Yan Lu.
Mainly focus on Semantic Segmentation, Domain Adaptation.

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, 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. A Deep Information Sharing Network for Multi-contrast Compressed Sensing MRI Reconstruction, Transaction on Image Processing (**TIP**), (submitted, got 2 Publish With Minor, 1 Review Again After Major Changes)

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 AAAI2019. ^ denotes joint 1st authors

Honors &Awards

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

Outstanding Graduates of Shandong Provience(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++

Homepage

https://zhiwenfan.github.io/

Reference

Xinghao Ding

Professor, Department of Communication Engineering, Xiamen University.

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John Paisley

Assiociate professor, Department of Electrical Engineering, Columbia University.

Email: jpaisley@columbia.edu

Yan Lu

Principal Research Manager, Microsoft Research Asia.

Email: yanlu@microsoft.com

Xun Guo

Lead Research, Microsoft Research Asia.

Email: xunguo@microsoft.com