

## 徐君, 博士

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### 基本信息

出生日期: 1988年12月2日      政治面貌: 中共党员  
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### 研究兴趣

计算机视觉: 图像修复, 增强; 机器学习: 模型压缩, 元学习, 网络架构搜索

### 教育背景

香港理工大学, 香港, 中国  
2014.07-2018.05, 博士, 计算机系  
• 导师: 张大鹏 (IEEE Fellow), 张磊 (IEEE Fellow)

南开大学, 天津, 中国  
2011.09-2014.06, 硕士, 信息与概率系, 数学科学学院  
• 导师: 阮吉寿  
2007.09-2011.06, 本科, 数学试点班, 数学科学学院  
• 专业学绩: 87/100

### 工作经历

起源人工智能研究院, 阿布扎比, 阿联酋  
2018.09至今, 研究员

Simon Fraser University, 本拿比, 加拿大  
2018.06-2018.09, 博士后, 计算机学院  
• 导师: Yasutaka Furukawa

### 待发表论文

(# indicates contribute equally, \* indicates the corresponding author.)

**Jun Xu**<sup>#,\*</sup>, Yuan Huang<sup>#</sup>, Li Liu, Fan Zhu, Xingsong Hou, Ling Shao. Noisy-As-Clean: Learning Unsupervised Denoising from the Corrupted Image. 2019.  
<https://arxiv.org/abs/1906.06878>

Ziqin Wang, **Jun Xu**<sup>\*</sup>, Li Liu, Fan Zhu, and Ling Shao. Edge-preserving Image Smoothing by Perceptual Edge Knowledge Distillation. 2019.

Yingkun Hou, **Jun Xu**<sup>\*</sup>, Mingxia Liu, Guanghai Liu, Li Liu, Fan Zhu, Ling Shao. NLH: A Blind Pixel-level Non-local Method for Real-world Image Denoising. <https://arxiv.org/abs/1906.06834>

**Jun Xu**, Yingkun Hou, Mengyang Yu, Li Liu, Fan Zhu, Dongwei Ren, Haoqian Wang, and Ling Shao. STAR: A Structure and Texture Aware Retinex Model. Submitted, 2019.  
<https://arxiv.org/abs/1906.06690>

Yingjun Du, **Jun Xu**, Xiantong Zhen, Qiang Qiu, Ming-Ming Cheng, Ling Shao. Conditional Variational Image Deraining. Submitted to IEEE Transactions on Image Processing (**TIP**), 2019.

**Jun Xu**<sup>\*</sup>, Hui Li, Zhetong Liang, David Zhang, Lei Zhang. Real-world Noisy Image Denoising: A New Benchmark. <https://arxiv.org/abs/1804.02603>.

Wangpeng An, Haoqian Wang, Qingyun Sun, **Jun Xu**, Yi Luo, Lei Zhang. PID Controller based

Stochastic Optimization Acceleration for Deep Neural Networks. Major revision in **IEEE Transactions on Neural Networks and Learning Systems (TNNLS)**.

Haoqian Wang, Zhiwei Xu, **Jun Xu**, Wangpeng An, Yongbing Zhang, Lei Zhang. Semi-supervised Self-growing Generative Adversarial Networks for Image Recognition. Submitted to **Pattern Recognition (PR)**.

Yingkun Hou, **Jun Xu\***. Edge-preserving Image Smoothing by Non-Local Pixel Filtering. In paper revision, to be submitted.

## 会议论文

Yingjun Du, **Jun Xu**, Qiang Qiu, Xiantong Zhen. Variational Image Deraining IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2020.

Ziqin Wang, **Jun Xu\***, Li Liu, Fan Zhu, and Ling Shao. RANet: Ranking Attention Network for Fast Video Object Segmentation. IEEE International Conference on Computer Vision (**ICCV**), 2019.

**Jun Xu**, Lei Zhang, David Zhang. A Trilateral Weighted Sparse Coding Scheme for Real-World Image Denoising. European Conference on Computer Vision (**ECCV**), 2018.

**Jun Xu**, Lei Zhang, David Zhang, Xiangchu Feng. Multi-channel Weighted Nuclear Norm Minimization for Real Color Image Denoising. IEEE International Conference on Computer Vision (**ICCV**), 2017.

**Jun Xu**, Lei Zhang, Wangmeng Zuo, David Zhang, Xiangchu Feng. Patch Group Based Nonlocal Self-Similarity Prior Learning for Image Denoising. IEEE International Conference on Computer Vision (**ICCV**), 2015.

Zhetong Liang, **Jun Xu**, David Zhang, Zisheng Cao, Lei Zhang. A Hybrid  $\ell_1$ - $\ell_0$  Layer Decomposition Model for Tone Mapping. IEEE Computer Vision and Pattern Recognition (**CVPR**), 2018.

Wangpeng An, Haoqian Wang, Qingyun Sun, **Jun Xu**, Lei Zhang, Qionghai Dai. A PID Controller Approach for Stochastic Optimization of Deep Networks. IEEE Computer Vision and Pattern Recognition (**CVPR**), 2018.

**Jun Xu**, Dongwei Ren, Lei Zhang, David Zhang. Patch Group based Bayesian Learning for Blind Image Denoising. Asian Conference on Computer Vision (**ACCV**) Workshop, 2016.

Zhou Xu, Shuai Li, Yutian Tang, Xiapu Luo, Tao Zhang, Jin Liu, **Jun Xu**. Cross Version Defect Prediction with Representative Data via Sparse Subset Selection. International Conference on Program Comprehension (**ICPC**), 2018.

## 期刊论文

**Jun Xu\***, Mengyang Yu, Ling Shao, Wangmeng Zuo, Deyu Meng, Lei Zhang, David Zhang. Scaled Simplex Representation for Subspace Clustering. **IEEE Transaction on Cybernetics**, 2020. <https://arxiv.org/abs/1807.09930>.

**Jun Xu**, Wangpeng An, David Zhang, Lei Zhang. Sparse, Collaborative, or Nonnegative Representation: Which Helps Pattern Classification? *Pattern Recognition (PR)*, vol. 88, pp. 679-688, Apr. 2019.

**Jun Xu**, Lei Zhang, David Zhang. External Prior Guided Internal Prior Learning for Real-world Noisy Image Denoising. *IEEE Transactions on Image Processing (TIP)*, vol. 27, issue 6, pp. 2996-3010, June 2018.

**Jun Xu**, Kui Xu, Ke Chen, Jishou Ruan. Reweighted Sparse Subspace Clustering. Computer Vision and Image Understanding (**CVIU**), vol. 138, pp. 25-37, Sep. 2015.

Dongwei Ren, Wangmeng Zuo, David Zhang, **Jun Xu**, Lei Zhang. Partial Deconvolution with Inaccurate Blur Kernel. IEEE Transactions on Image Processing (**TIP**), vol. 27, issue 1, pp. 511-524, Jan. 2018.

Zhou Xu, Shuai Li, **Jun Xu**, Jin Liu, Xiapu Luo, Yifeng Zhang, Tao Zhang, Jacky Keung, Yutian Tang. LDFR: Learning Deep Feature Representation for Software Defect Prediction. Journal of Systems and Software, vol. 158, Dec., 2019.

Zhou Xu, Shuai Li, Xiapu Luo, Jin Liu, Tao Zhang, Yutian Tang, **Jun Xu**, Peipei Yuan, Jacky Keung. TSTSS: A Two-Stage Training Subset Selection Framework for Cross Version Defect Prediction. Journal of Systems and Software, vol. 154, pp. 59-78, Sep. 2019.

Yanping Zhang, **Jun Xu**, Wei Zheng, Chen Zhang, Xingye Qiu, Ke Chen, Jishou Ruan. newDNA-Prot: Prediction of DNA-binding proteins by employing support vector machine and a comprehensive sequence representation. Computational Biology and Chemistry, vol. 52, pp. 51-59, Oct. 2014.

会议程序委员/  
审稿人

会议:

- ICCV 2019
- CVPR 2019
- IJCAI 2019
- MICCAI 2019
- ACCV 2018/2016
- CCML 2017

期刊:

- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Cybernetics (TCYB)
- IEEE Transactions on Multimedia (TMM)
- IEEE Access
- SIAM Journal on Imaging Sciences (SIIMS)
- Pattern Recognition (PR)
- Image and Vision Computing (IVC)
- IET Image Processing
- IET Computer Vision
- International Journal of Image and Graphics (IJIG)
- International Journal of Wavelets, Multiresolution and Information Processing
- Journal of Electronic Imaging (JEI)
- Journal of Visual Communication and Image Representation (JVCIR)
- Journal of the Franklin Institute
- Journal of Real-Time Image Processing
- Biophotonics

- Neurocomputing
- PLOS One
- Engineering Computations
- The Visual Computer

## 荣誉与奖励

优秀毕业生（硕士），南开大学数学科学学院, 2014年

研究生国家奖学金（硕士），中国教育部, 2013年

全国高中数学联赛全国二等奖， 2006年