

## 徐君, 博士

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### 基本信息

出生日期: 1988年12月2日  
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### 研究兴趣

计算机视觉: 图像修复, 增强; 机器学习: 图像分类, 聚类

### 教育背景

香港理工大学, 香港, 中国

2014.07-2018.06, 博士, 计算机系

- 导师: 张大鹏, 张磊

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

### 已发表文章

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

**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.

**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.

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.

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, 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, in press, 2019.

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.

Kui Xu, Ke Chen, **Jun Xu**, Jialin Tian, Hao Liu, Yufan Wang. CGDNA: An Ensemble De Novo Genome Assembly Algorithm Based on Clustering Graph. Computer Science, vol. 42, issue 9, pp. 235-239, 245, 2015.

Yuanyuan Zhu, Xiaohe Wu, **Jun Xu**, David Zhang, Wangmeng Zuo. Radius-margin based support vector machine with LogDet regularization. International Conference on Machine Learning and Cybernetics (ICMLC), pp. 277-282, 2015.

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.

Yajun Sheng, Xingye Qiu, Chen Zhang, **Jun Xu**, Yanping Zhang, Wei Zheng, and Ke Chen. Quad-PRE: A Hybrid Method to Predict Protein Quaternary Structure Attributes. Computational and Mathematical Methods in Medicine, vol. 2014, Article ID 715494, 9 pages, 2014.

#### 待发表文章

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

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

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.

#### 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