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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
- 专业学分绩: 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
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待发表论文

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

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

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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.

Ying Fu, Yuenan Guo, **Jun Xu***, Hua Huang. Denoising Algorithm Evaluation via Joint Distortion and Perception Metrics. Finished, to be submitted.

会议论文   **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 ℓ_1-ℓ_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.

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期刊论文   **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.

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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.

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

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