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陆耀

马波

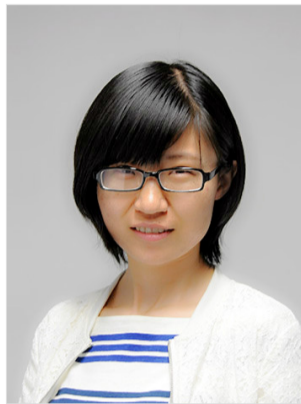
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博士生导师



姓名: 付莹

所在学科: 计算机科学与技术

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○ 个人信息

付莹, 教授, 博士生导师。2009年获西安电子科技大学电子信息工程专业学士学位, 2012年获清华大学自动化专业硕士学位, 2015年获东京大学信息科学与技术专业博士学位。2015年到2016年在东京大学从事博士后研究工作, 2016年加入北京理工大学计算机学院, 2017年入选国家级高层次人才计划。已在IEEE TPAMI、IJCV、TIP等国际期刊和ICCV、CVPR、ICML等国际会议发表多篇论文, 曾获得ICML2020, PRCV2019最佳论文奖。

每年招收博士生1名, 硕士生2-3名。欢迎对计算摄像学、计算机视觉、机器学习、多媒体图像视频分析等相关领域研究有兴趣的同学们加入课题组。

个人主页: <https://ying-fu.github.io/>

○ 科研方向

计算摄像学、计算机视觉、机器学习、多媒体图像视频分析等

○ 代表性学术成果

1. Kaixuan Wei, Angelica Aviles-Rivero, Jingwei Liang, **Ying Fu***, Carola-Bibiane Schnlieb, Hua Huang. Tuning-free Plug-and-Play Proximal Algorithm for Inverse Imaging Problems. International Conference on Machine Learning (ICML), Vienna, Austria, 2020. (CCF-A类会议, 最佳论文奖, 接受率0.04%)

2. **Ying Fu**, Tao Zhang, Yinqiang Zheng, Debing Zhang, Hua Huang*. Joint Camera Spectral Response Selection and Hyperspectral Image Recovery. IEEE Trans. Pattern Analysis and Machine Intelligence (TPAMI), 2020. (CCF-A类期刊, IF="17.861)

3. Kaixuan Wei, **Ying Fu***, Hua Huang. 3-D Quasi-Recurrent Neural Network for Hyperspectral Image Denoising, IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2020. (CCF-B类期刊, IF="8.793)

4. Kaixuan Wei, **Ying Fu***, Jiaolong Yang, Hua Huang. A Physics-based Noise Formation Model for Extreme Low-light Raw Denoising, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, USA, 2020. (CCF-A类会议, 口头报告, 接收率5%)

5. Lizhi Wang, Chen Sun, Maoqing Zhang, **Ying Fu**, Hua Huang*. DNU: Deep Non-local Unrolling for Computational Spectral Imaging, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, USA, 2020. (CCF-A类会议)

6. Yixi Xiang, **Ying Fu***, Lei Zhang, Hua Huang. An Effective Network With ConvLSTM for Low-Light Image Enhancement, The 2nd Chinese Conference on Pattern Recognition and Computer Vision (PRCV), Xi'an, China, 2019. (最佳论文奖)

7. Lizhi Wang, Tao Zhang, **Ying Fu***, Hua Huang. HyperReconNet: Joint Coded Aperture Optimization and Image Reconstruction for Compressive Hyperspectral Imaging, IEEE Transactions on Image Processing (TIP), 2019, 28(5): 2257-2270 (CCF-A类期刊, IF="9.34)

8. Ye Xiang, **Ying Fu***, Hua Huang. Global Topology Constraint Network for Fine-Grained Vehicle Recognition, IEEE Transactions on Intelligent Transportation Systems (TITS), 2019 (CCF-B类期刊, IF="6.319)

沈建冰	9. Tao Zhang, Ying Fu* , Lizhi Wang, Hua Huang. Hyperspectral Image Reconstruction using Deep External and Internal Learning, IEEE International Conference on Computer Vision (ICCV), Seoul , 2019. (CCF-A类会议)
沈蒙	10. Ye Xiang, Ying Fu* , Pan Ji, Hua Huang. Incremental Learning Using Conditional Adversarial Networks, IEEE International Conference on Computer Vision (ICCV), Seoul , 2019. (CCF-A类会议)
石峰	11. Shipeng Zhang, Lizhi Wang*, Ying Fu , Xiaoming Zhong, Hua Huang. Computational Hyperspectral Imaging Based on Dimension-discriminative Low-rank Tensor Recovery, IEEE International Conference on Computer Vision (ICCV), Seoul, 2019. (CCF-A类会议)
宋大为	12. Kaixuan Wei, Jiaolong Yang, Ying Fu* , David Wipf, Hua Huang. Single Image Reflection Removal Exploiting Misaligned Training Data and Network Enhancements, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, 2019. (CCF-A类会议)
宋丹丹	13. Ying Fu , Tao Zhang, Yinqiang Zheng, Debing Zhang, Hua Huang*. Hyperspectral Image Super-Resolution with Optimized RGB Guidance, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, 2019. (CCF-A类会议)
宋红	14. Lizhi Wang, Chen Sun, Ying Fu , Min H. Kim, Hua Huang*. Hyperspectral Image Reconstruction Using a Deep Spatial-Spectral Prior, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, 2019. (CCF-A类会议)
谭毓安	15. Ying Fu , Yinqiang Zheng, Hua Huang*, Imari Sato, Yoichi Sato. Hyperspectral Image Super-Resolution With a Mosaic RGB Image, IEEE Transactions on Image Processing (TIP), 2018,27(11): 5539-5552 (CCF-A类期刊, IF="9.34)
王国仁	16. Ying Fu , Tao Zhang, Yinqiang Zheng, Debing Zhang, Hua Huang*. Joint Camera Spectral Sensitivity Selection and Hyperspectral Image Recovery. European Conference on Computer Vision (ECCV), Munich, Germany, 2018. (CCF-B类会议)
王立志	17. Ying Fu , Antony Lam, Imari Sato, and Yoichi Sato. Adaptive Spatial-Spectral Dictionary Learning for Hyperspectral Image Restoration, International Journal of Computer Vision (IJCV), vol. 122, no. 5, pp. 228-245, 2017. (CCF-A类期刊, IF="5.698)
王树良	18. Ying Fu , Antony Lam, Imari Sato, Takahiro Okabe, and Yoichi Sato. Reflectance and Fluorescent Spectra Recovery via Actively Lit RGB Images, IEEE Trans. Pattern Analysis and Machine Intelligence (TPAMI), vol. 38, no. 5, pp. 965-978,2016. (CCF-A类期刊, IF="17.861)
吴心筱	19. Ying Fu , Antony Lam, Imari Sato, Takahiro Okabe, and Yoichi Sato. Separating Reflective and Fluorescent Components using High Frequency Illumination in the Spectral Domain, IEEE Trans. Pattern Analysis and Machine Intelligence (TPAMI), vol. 38, no. 7, pp. 1313-1326, 2016. (CCF-A类期刊, 受邀投稿, IF="17.861)
武玉伟	20. Ying Fu , Yinqiang Zheng, Imari Sato, and Yoichi Sato. Exploiting Spectral-Spatial Correlation for Coded Hyperspectral Image Restoration, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016. (CCF-A类会议)
余浩然	21. Ying Fu , Antony Lam, Imari Sato, and Yoichi Sato. Adaptive Spatial-Spectral Dictionary Learning for Hyperspectral Image Denoising, IEEE International Conference on Computer Vision (ICCV), 2015. (CCF-A类会议)
辛欣	22. Yinqiang Zheng, Ying Fu , Antony Lam, Imari Sato, and Yoichi Sato. Separating Fluorescent and Reflective Components by Using a Single Hyperspectral Image, IEEE International Conference on Computer Vision (ICCV), 2015. (CCF-A类会议)
徐畅	23. Ying Fu , Antony Lam, Yasuyuki Matsushita, Imari Sato, and Yoichi Sato. Interreflectance Removal Using Fluorescence, European Conference on Computer Vision (ECCV), 2014. (CCF-B类会议)
薛静锋	24. Ying Fu , Antony Lam, Yasuyuki Kobashi, Imari Sato, Takahiro Okabe, and Yoichi Sato. Reflectance and Fluorescent Spectra Recovery based on Fluorescent Chromaticity Invariance under Varying Illumination, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2014. (CCF-A类会议, 口头报告, 接收率5.76%)
杨晨	25. Ying Fu , Antony Lam, Imari Sato, Takahiro Okabe, and Yoichi Sato. Separating Reflective and Fluorescent Components using High Frequency Illumination in the Spectral Domain, IEEE International Conference on Computer Vision (ICCV), 2013. (CCF-A类会议, 口头报告, 接收率2.52%)
杨松	
张磊	
张美慧	
张志威	
赵清杰	
郑军	
祝烈煌	
张子剑	

○ 承担科研情况

○ 所获奖励

○ 社会兼职

○ 备注

