



Department: School of Information Science and Engineering

Professional field: Pattern Recognition and Intelligent Systems

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Profile

Xiaojing Gu received her BS and PhD degrees from Dong Hua University in 2006 and 2011, respectively. She is currently an associate professor at the School of Information Science and Engineering, East China University of Science and Technology, China. Her current research interests include multispectral computer vision systems, infrared image processing, medical image processing, and multimodal machine learning.

Research Field

multispectral computer vision systems, multimodal machine learning, infrared image processing, and medical image processing.

Research results and selected published papers

专利 Patens:

- [1] 谷小婧,董永昊,何雨旻,郑紫芊,符方昊,顾幸生:一种基于区域稀疏表示的红外与可见光图像融合方法,2019.11.01,中国,ZL2016109942144
- [2] 谷小婧,贺梦驰,顾幸生,一种适用于热像视频彩色化的异常色校正方法,2018.08.02,中国,ZL201510394829.9
- [3] 谷小婧,贺梦驰,顾幸生,一种基于色彩混合的快速红外彩色夜视实现方法,2018.02.01,中国,ZL201410535182.2

论文 Papers:

- [1] Xiaojing Gu*, Peng Zhou, Xingsheng Gu. "Bayesian Compressive Sensing for Thermal Imagery Using Gaussian Jeffreys Prior." Infrared Physics & Technology, 2017 ,83: 51-61 [SCI]
- [2] Xiaojing Gu*, Mengchi He, Xingsheng Gu. "Thermal image colorization using Markov decision processes." Memetic Computing, 2017, 9(1):15-22 [SCI]
- [3] Xiaojing Gu*, Mengchi He, Henry Leung, Xingsheng Gu; Fast colorization for single-band thermal video sequences, Neurocomputing, 2016, 171: 1146-1157 [SCI]

项目 Grants:

- [1] 国家自然科学基金面上项目, 61973122, 基于红外热成像的石化装置气体泄漏自动检测方法, 2020.1-2013.12, 主持
- [2] 国家自然科学基金面上项目, 61775058, 基于多帧时空信息协同理解的自然感彩色红外成像方法研究, 2018.01-2018.12, 主持
- [3] 国家自然科学基金青年项目, 61205017, 基于红外热像色彩重建的全天候彩色夜视技术研究, 2013.01-2015.12, 主持
- [4] 中央高校基本科研业务费探索研究基金, 红外夜视的自然色彩与三维结构协同重建方法研究, 2017.05-2018.12, 主持
- [5] 中央高校基本科研业务费探索研究基金, 基于热像分析的全彩红外夜视技术研究, 2014.09-2016.09, 20 万, 主持