A Multi-scale Contrast-based Image Quality Assessment Model for Multi-Exposure Image Fusion

Lu Xing, Lei Cai, Huanqiang Zeng, Jing Chen, Jianqing Zhu, Junhui Hou

PII: S0165-1684(17)30426-7
DOI: 10.1016/j.sigpro.2017.12.013
Reference: SIGPRO 6682

To appear in: *Signal Processing*

Received date: 31 July 2017
Revised date: 18 November 2017
Accepted date: 13 December 2017

Please cite this article as: Lu Xing, Lei Cai, Huanqiang Zeng, Jing Chen, Jianqing Zhu, Junhui Hou, A Multi-scale Contrast-based Image Quality Assessment Model for Multi-Exposure Image Fusion, *Signal Processing* (2017), doi: 10.1016/j.sigpro.2017.12.013

Highlights

- Propose a multi-scale contrast-based IQA model for multi-exposure image fusion.
- Extract contrast structure and contrast saturation to obtain contrast similarity map.
- Compute the weight of each reference image based on its relevance to the MEF image.
- Exploit multi-scale scheme to explore image details on MEF quality assessment.
- Experimental results justify the accuracy and effectiveness of the proposed method.