## **Accepted Manuscript**

Markov Random Field-based image inpainting with direction structure distribution analysis for maintaining structure coherence

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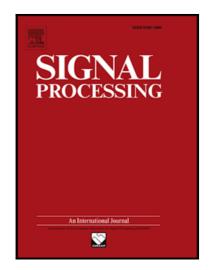
PII: S0165-1684(18)30288-3

DOI: https://doi.org/10.1016/j.sigpro.2018.09.004

Reference: SIGPRO 6913

To appear in: Signal Processing

Received date: 2 April 2018
Revised date: 4 August 2018
Accepted date: 3 September 2018



Please cite this article as: Jixiang Cheng, Zhidan Li, Markov Random Field-based image inpainting with direction structure distribution analysis for maintaining structure coherence, *Signal Processing* (2018), doi: https://doi.org/10.1016/j.sigpro.2018.09.004

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#### ACCEPTED MANUSCRIPT

### Highlights

- A MRF-based inpainting algorithm for maintaining structure coherence is proposed.
- Selecting proper offsets for energy function determines the inpainting results.
- Appropriate direction structure feature is helpful to improve the inpainting performance and efficiency.

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