

Accepted Manuscript

Color Image Restoration and Inpainting via Multi-Channel Total Curvature

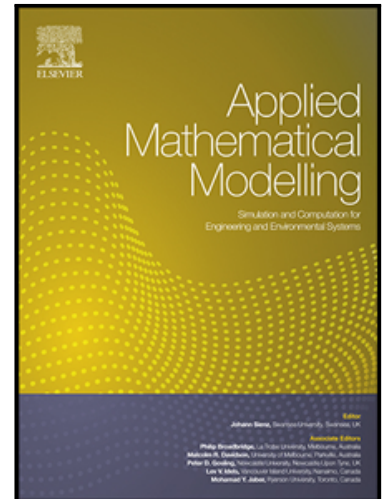
Lu Tan , Wanquan Liu , Zhenkuan Pan

PII: S0307-904X(18)30202-6
DOI: [10.1016/j.apm.2018.04.017](https://doi.org/10.1016/j.apm.2018.04.017)
Reference: APM 12256

To appear in: *Applied Mathematical Modelling*

Received date: 9 August 2017
Revised date: 26 March 2018
Accepted date: 24 April 2018

Please cite this article as: Lu Tan , Wanquan Liu , Zhenkuan Pan , Color Image Restoration and Inpainting via Multi-Channel Total Curvature, *Applied Mathematical Modelling* (2018), doi: [10.1016/j.apm.2018.04.017](https://doi.org/10.1016/j.apm.2018.04.017)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- We propose a model using multi-channel total curvature for color image restoration
- This model adopts the L1 norm to preserve image contrast, remove anomalies and irregularities from images
- The concept of MTV model based on curvatures is used to achieve edge and corner preserving
- Then we design a fast ADMM algorithm combined with the FFT, analytical soft threshold formulas and projection methods
- Our model results in good performance and the ADMM method is much faster than the traditional method

Download English Version:

<https://daneshyari.com/en/article/8051230>

Download Persian Version:

<https://daneshyari.com/article/8051230>

[Daneshyari.com](https://daneshyari.com)