

Accepted Manuscript

Blind Image Deblurring Based on Multi-Resolution Ringing Removal

Yasser Elmi Sola , Farzad Zargari , Amir Masoud Rahmani

PII: S0165-1684(18)30299-8
DOI: <https://doi.org/10.1016/j.sigpro.2018.09.015>
Reference: SIGPRO 6925

To appear in: *Signal Processing*

Received date: 7 December 2017
Revised date: 6 September 2018
Accepted date: 11 September 2018

Please cite this article as: Yasser Elmi Sola , Farzad Zargari , Amir Masoud Rahmani , Blind Image Deblurring Based on Multi-Resolution Ringing Removal, *Signal Processing* (2018), doi: <https://doi.org/10.1016/j.sigpro.2018.09.015>



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

In this manuscript, a blind image deblurring/PSF estimation method is presented. The most important features of the proposed method include:

- 1. Latent sharp image and the blur PSF are estimated jointly via a multi-functional optimization problem addressed by a first-order primal-dual solver.
- 2. This approach generates a multi-resolution pyramid of the input blurred image.
- 3. We introduce a PSF initiation method that benefits from the salient structure obtained via an l_0 -gradient smoothing of blurred image.
- 4. A first-order primal-dual solution to the l_0 -gradient smoothing problem is introduced in this paper.

Download English Version:

<https://daneshyari.com/en/article/10133033>

Download Persian Version:

<https://daneshyari.com/article/10133033>

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