Abstract

The objective of image restoration is to reconstruct the primitive scene from a degraded contemplation. This retrieval process is sequential and pivotal to numerous image processing applications. Although classical image restoration has been thoroughly studied [1, 2, 3] but no one conceived it from parallel computing procedure. Blind image revival is deliverance of estimating the primitive image from the degraded image using partial information about the imaging system. In classical linear image restoration, the blurring function is given, and the degradation course is overturned using one of the many known restoration algorithms. Regrettably, in many pragmatic circumstances, the blur is often unspecified, and minor information is accessible about the primitive image. Therefore, the primitive image $F(x,y)$ must be identified directly by using partial or no information about the blurring process and the true image. We pose a novel algorithm for blind image deblurring from a single image using Bayesian and parallel computation. The blur point spread function (PSF) is assumed uniform. We divide the image and exert the algorithm on each part parallelly.

References
Blind Image deblurring using Bayesian approach on parallel architecture

- Michael Elad and Arie Feuer, Senior Member, IEEE Restoration of a Single Superresolution Image from Several Blurred, Noisy, and Undersampled Measured Images
- WANG Shoujue, CAO Yu, HUANG Yi A Novel Image Restoration Approach Based on Point Location in High-dimensional Space Geometry
- Rajeev Srivastava*, Harish Parthasarthy, JRP Guptat and D. Roy Choudhary Image Restoration from Motion Blurred Image using PDEs formalism
- DONG-DONG CAO, PING GUO BLIND IMAGE RESTORATION BASED ON WAVELET ANALYSIS
- Gabriel Cristdbal and Rafael Navarro BLIND AND ADAPTIVE IMAGE RESTORATION IN THE FRAMEWORK OF A MULTISCALE GABOR REPRESENTATION
- Artemy Baxansky and Meir Tzur, Zoran Corporation, Haifa, Israel 2010 IEEE 26-th Convention of Electrical and Electronics Engineers in Israel
- Weisheng Dong, Lei Zhang, Member, IEEE, Guangming Shi, Senior Member, IEEE, and Xiaolin Wu, Fellow, IEEE. IEEE TRANSACTIONS ON IMAGE PROCESSING, VOL. 20, NO. 7, JULY 2011
- Ms. S. Ramya Kalasalingam University, Anand Nagar, Krishnankoil, PROCEEDINGS OF ICETECT 2011
- Ming Jiang, Ge Wang, Fellow, IEEE, Margaret W. Skinner, Jay T. Rubinstein, Member, IEEE, and Michael W. Vannier, Member, IEEE, IEEE TRANSACTIONS ON MEDICAL IMAGING, VOL. 22, NO. 7, JULY 2003
- Ta-Hsin Li, Member, IEEE, and Keh-Shin Lii, Member,IEEE

**Index Terms**

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