

# ITERATIVE IDENTIFICATION AND RESTORATION OF IMAGES

by

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# Iterative Identification And Restoration Of Images

**Reginald L. Lagendijk, Jan Biemond**



## **Iterative Identification And Restoration Of Images:**

**Iterative Identification and Restoration of Images** Reginald L. Lagendijk, Jan Biemond, 2013-10-03 One of the most intriguing questions in image processing is the problem of recovering the desired or perfect image from a degraded version. In many instances one has the feeling that the degradations in the image are such that relevant information is close to being recognizable if only the image could be sharpened just a little. This monograph discusses the two essential steps by which this can be achieved, namely the topics of image identification and restoration. More specifically, the goal of image identification is to estimate the properties of the imperfect imaging system (blur) from the observed degraded image together with some statistical characteristics of the noise and the original uncorrupted image. On the basis of these properties, the image restoration process computes an estimate of the original image. Although there are many textbooks addressing the image identification and restoration problem in a general image processing setting, there are hardly any texts which give an in-depth treatment of the state of the art in this field. This monograph discusses iterative procedures for identifying and restoring images which have been degraded by a linear spatially invariant blur and additive white observation noise. As opposed to non-iterative methods, iterative schemes are able to solve the image restoration problem when formulated as a constrained and spatially variant optimization problem. In this way, restoration results can be obtained which outperform the best results of conventional restoration filters.

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Biemond, 2012-12-06 One of the most intriguing questions in image processing is the problem of recovering the desired or perfect image from a degraded version. In many instances one has the feeling that the degradations in the image are such that relevant information is close to being recognizable if only the image could be sharpened just a little. This monograph discusses the two essential steps by which this can be achieved, namely the topics of image identification and restoration. More specifically, the goal of image identification is to estimate the properties of the imperfect imaging system (blur) from the observed degraded image together with some statistical characteristics of the noise and the original uncorrupted image. On the basis of these properties, the image restoration process computes an estimate of the original image. Although there are many textbooks addressing the image identification and restoration problem in a general image processing setting, there are hardly any texts which give an in-depth treatment of the state of the art in this field. This monograph discusses iterative procedures for identifying and restoring images which have been degraded by a linear spatially invariant blur and additive white observation noise. As opposed to non-iterative methods, iterative schemes are able to solve the image restoration problem when formulated as a constrained and spatially variant optimization problem. In this way, restoration results can be obtained which outperform the best results of conventional restoration filters.

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Katsaggelos, 1994      **Signal Processing IV** Jean-Louis Lacoume, 1988 This was the fourth in a sequence of international

conferences promoted and organized by the European Association for Signal Processing EURASIP This book in three volumes presents the proceedings of that conference EUSIPCO 88 comprised 47 separate sessions organized in 7 parallel programs Each of the 438 papers that were presented at the conference were reviewed by at least two referees from two independent institutions In addition 8 tutorials were contributed by experts in a large field of topics from Hidden Markov Fields to High Definition TV Systems The new technical potential of the DSP opening new frontiers was evidenced by the plenary session on Cheap and Powerful DSP Technologies A Challenge The contributions are grouped by topic in the contents in order to facilitate easy access The diversity of the topics as well as the extraordinary tempo at which Signal Processing has progressed since the first conference in Lausanne 1980 attest to the permanent vitality of this field of research and development Due to the extensive length of the contents only the number of papers presented per session is listed below

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## Decoding **Iterative Identification And Restoration Of Images**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Iterative Identification And Restoration Of Images**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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