

ITERATIVE IDENTIFICATION AND RESTORATION OF IMAGES

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Iterative Identification And Restoration Of Images

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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.

Iterative Identification and Restoration of Images Reginald Leendert Lagendijk, 1990

Visual Communications and Image Processing '94 Aggelos Konstantinos Katsaggelos, 1994 **Digital Image Restoration** Aggelos Konstantinos Katsaggelos, 1991 Recent research results are presented regarding the formulation of the restoration problem as a convex programming problem, the implementation of restoration algorithms using artificial neural networks, the derivation of non-stationary image models and their application to image estimation and restoration, the development of algorithms for the simultaneous image and blur parameter identification and restoration, and the development of algorithms for restoring scanned photographic images.

Visual Communications and Image Processing, 1997 **Applications of Digital Image Processing**, 1996 **Digital Image Recovery and Synthesis**, 1993 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 *Digital Signal Processing Technology* Society of Photo-optical Instrumentation Engineers,1995 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature Selected Papers on Digital Image Restoration M.

Ibrahim Sezan,1992 *Proceedings of the ... Conference on Information Sciences and Systems* ,1991 *Proceedings* ,1988

Image Processing Algorithms and Techniques III James R. Sullivan,Majid Rabbani,Benjamin M. Dawson,Society of Photo-optical Instrumentation Engineers,IS & T--the Society for Imaging Science and Technology,1992 Brinkman's cumulatieve catalogus van boeken ,1993 Voorts een alphabetische lijst van Nederlandsche boeken in Belgi uitgegeven

1993 IEEE International Symposium on Circuits and Systems ,1993 **Pattern Recognition and Image Processing in Physics**, Robin Antony Vaughan,1991 The Scottish Universities Summer School in Physics has been held every year since 1960 The purpose of the school is to contribute to the dissemination of advanced knowledge and the formation of contacts among scientists from different countries The lecturers at the school are all international experts in their subject Their brief is to present an up to date survey of current research in their own field in the form of a coherent series of lectures at a level suitable for students who are normally in their second or third postgraduate year With more and more sophisticated computers and computer software proving itself invaluable with its advanced pattern recognition capabilities in such areas as defence and environmental and industrial control this edited volume discusses various systems that have emerged in recent years and their potential and actual applications Necessary computer architecture and software tools are explained Image processing and analysis are discussed paying particular attention to shape and motion analysis and image enhancement Neural networks play a vital role and are discussed in some detail Specific applications of this technology are concentrated on in the final section of this work notably earth observations and geological study

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