

ITERATIVE IDENTIFICATION AND RESTORATION OF IMAGES

by

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Iterative Identification and Restoration of Images Reginald L. Lagendijk, Jan Biemond, 2011-09-15 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

Handbook of Image and Video Processing Alan C. Bovik, 2010-07-21 55% new material in the latest edition of this must have for students and practitioners of image video processing. This Handbook is intended to serve as the basic reference point on image and video processing in the field, in the research laboratory and in the classroom. Each chapter has been written by carefully selected distinguished experts specializing in that topic and carefully reviewed by the Editor, Al Bovik, ensuring that the greatest depth of understanding be communicated to the reader. Coverage includes introductory, intermediate and advanced topics and as such, this book serves equally well as classroom textbook as reference resource. Provides practicing engineers and students with a highly accessible resource for learning and using image video processing theory and algorithms. Includes a new chapter on image processing education which should prove invaluable for those developing or modifying their curricula. Covers the various image and video processing standards that exist and are emerging, driving today's explosive industry. Offers an understanding of what images are, how they are modeled, and gives an introduction to how they are perceived. Introduces the necessary practical background to allow engineering students to acquire and process their own digital image or video data. Culminates with a diverse set of applications, chapters covered in sufficient depth to serve as extensible models to the reader's own potential applications. About the Editor, Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin, where he is the Director of the Laboratory for Image and Video Engineering (LIVE). He has published over 400 technical articles in the general area of image

and video processing and holds two U S patents Dr Bovik was Distinguished Lecturer of the IEEE Signal Processing Society 2000 received the IEEE Signal Processing Society Meritorious Service Award 1998 the IEEE Third Millennium Medal 2000 and twice was a two time Honorable Mention winner of the international Pattern Recognition Society Award He is a Fellow of the IEEE was Editor in Chief of the IEEE Transactions on Image Processing 1996 2002 has served on and continues to serve on many other professional boards and panels and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin Texas in 1994 No other resource for image and video processing contains the same breadth of up to date coverage Each chapter written by one or several of the top experts working in that area Includes all essential mathematics techniques and algorithms for every type of image and video processing used by electrical engineers computer scientists internet developers bioengineers and scientists in various image intensive disciplines

The Essential Guide to Image Processing Alan C. Bovik, 2009-07-08 A complete introduction to the basic and intermediate concepts of image processing from the leading people in the field Up to date content including statistical modeling of natural anisotropic diffusion image quality and the latest developments in JPEG 2000 This comprehensive and state of the art approach to image processing gives engineers and students a thorough introduction and includes full coverage of key applications image watermarking fingerprint recognition face recognition and iris recognition and medical imaging This book combines basic image processing techniques with some of the most advanced procedures Introductory chapters dedicated to general principles are presented alongside detailed application orientated ones As a result it is suitably adapted for different classes of readers ranging from Master to PhD students and beyond Prof Jean Philippe Thiran EPFL Lausanne Switzerland Al Bovik s compendium proceeds systematically from fundamentals to today s research frontiers Professor Bovik himself a highly respected leader in the field has invited an all star team of contributors Students researchers and practitioners of image processing alike should benefit from the Essential Guide Prof Bernd Girod Stanford University USA This book is informative easy to read with plenty of examples and allows great flexibility in tailoring a course on image processing or analysis Prof Pamela Cosman University of California San Diego USA A complete and modern introduction to the basic and intermediate concepts of image processing edited and written by the leading people in the field An essential reference for all types of engineers working on image processing applications Up to date content including statistical modelling of natural anisotropic diffusion image quality and the latest developments in JPEG 2000

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Chaudhuri,Rajbabu Velmurugan,Renu Rameshan,2014-09-22 Blind deconvolution is a classical image processing problem which has been investigated by a large number of researchers over the last four decades The purpose of this monograph is not to propose yet another method for blind image restoration Rather the basic issue of deconvolvability has been explored from a theoretical view point Some authors claim very good results while quite a few claim that blind restoration does not work The authors clearly detail when such methods are expected to work and when they will not In order to avoid the assumptions needed for convergence analysis in the Fourier domain the authors use a general method of convergence analysis used for alternate minimization based on three point and four point properties of the points in the image space The authors prove that all points in the image space satisfy the three point property and also derive the conditions under which four point property is satisfied This provides the conditions under which alternate minimization for blind deconvolution converges with a quadratic prior Since the convergence properties depend on the chosen priors one should design priors that avoid trivial solutions Hence a sparsity based solution is also provided for blind deconvolution by using image priors having a cost that increases with the amount of blur which is another way to prevent trivial solutions in joint estimation This book will be a highly useful resource to the researchers and academicians in the specific area of blind deconvolution

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Franklin, Robert J. Plemmons, 1998-06-01 This book concerns modern methods in scientific computing and linear algebra relevant to image and signal processing For these applications it is important to consider ingredients such as 1 sophisticated mathematical models of the problems including a priori knowledge 2 rigorous mathematical theories to understand the difficulties of solving problems which are ill posed and 3 fast algorithms for either real time or data massive computations Such are the topics brought into focus by these proceedings of the Workshop on Scientific Computing held in Hong Kong on March 10 12 1997 the sixth in such series of Workshops held in Hong Kong since 1990 where the major themes were on numerical linear algebra signal processing and image processing Maximum Likelihood Iterative Image Identification and Restoration Kuen-Tsair Lay, 1991 **Selected Papers on Digital Image Restoration** M. Ibrahim Sezan, 1992 Applications of Digital Image Processing, 1996 *Neural and Stochastic Methods in Image and Signal Processing*, 1993 **Digital Image Recovery and Synthesis**, 1993 **Visual Communications and Image Processing**, 1989 **Visual Communications and Image Processing '94** Aggelos Konstantinos Katsaggelos, 1994 *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 **Electrical & Electronics Abstracts**, 1997 **Signal Processing, Theories and Applications**, 1988 Journal of the Optical Society of America, 2002

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