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ITERATIVE IDENTIFICATION AND RESTORATION OF IMAGES

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ABSTRACT

In order to restore distorted images, the unknown blurs have to be identified from the blurred images themselves. We formulate the blur identification problem as a constrained maximum likelihood problem. The constraints directly incorporate a priori known relations between the blur (and image model) coefficients, such as symmetry properties, into the identification procedure. The resulting nonlinear minimization problem is solved iteratively, yielding a very general identification algorithm. An example of blur identification on synthetic data is given.

I. INTRODUCTION

The first step towards the restoration of degraded images is the identification of the kind of degradation the image has suffered. Modelling a blurred image as the output of a 2-dimensional linear system, the identification problem is the problem of estimating the unknown characterising point-spread function (PSF) of this system. One approach to blur identification is to obtain a model of the blurring system from the physical nature of the problem. Unfortunately, one has hardly ever enough a priori knowledge to determine the PSF in this way. Therefore, the information about the blurring process has to be determined from the blurred image itself.

The earliest work on blur identification concentrated on identifying PSFs that have zeros only on the unit bi-circle [1]. One of the shortcomings of this method is that PSFs which do not satisfy this requirement, such as a properly truncated Gaussian PSF, cannot be identified. In more recent work [2,3] the original image is first modeled as a 2-D autoregressive (AR) process. Then, if the observed blurred image is assumed noiseless, the image and blur model identification problem is specified as a 2-D autoregressive moving-average (ARMA) identification problem, where the AR coefficients are related only to the image model, and the MA coefficients only to the blur model (PSF).

Tekalp et al. [2] derived maximum likelihood estimates for these ARMA parameters, and computed them by first decomposing the PSF into four (causal) quarterplane convolutional factors, each of

which is stable in its direction of recursion, and next identifying each of these factors recursively. This approach assumes that the unknown PSF is real, symmetric (i.e. zero phase) and has a positive Fourier transform. Biemond et al. [3] showed that the 2-D ARMA identification can be done in parallel, where each of the parallel channels requires the identification of a 1-D complex ARMA process. An intermediate high-order AR approximation step is used to compute these ARMA coefficients.

In this paper we formulate the blur identification problem as a constrained maximum likelihood (ML) problem. The linear constraints incorporated in the formulation represent a priori known relations between the blur (or image model) coefficients. The resulting nonlinear minimization problem is solved by employing an iterative gradient based minimization procedure. It is conceptually advantageous to use iterative methods, since they offer the possibility of incorporating a priori knowledge about the original blur and image model into the identification procedure. Furthermore, since they act upon one complete image they are free from the causality restrictions imposed by recursive techniques.

In Section II we describe the mathematical (probabilistic) models for the image and degradation. Next, in Section III, we formulate the identification problem as a ML problem. In this section we also describe the iterative algorithm for minimizing the resulting ML index. Some preliminary experimental results are presented in Section IV. Finally, Section V summarizes relevant conclusions and discusses areas of further research.

II. IMAGE AND DEGRADATION MODELS

Basic Model Development

It is assumed that the original image $f(i,j)$ (of the size $N \times N$ pixels) can be represented by the output of a 2-D AR system

$$f(i,j) = \sum_{k,l \in W_A} a(k,l)f(i-k,j-l)+v(i,j).\quad (1)$$

where $a(k,l)$ are the image model coefficients, and W_A the support of the image model, which is not necessarily causal. By lexicographically ordering of the image data [1] we can use the more compact matrix-vector notation

$$f = Af + v.\quad (2)$$

Iterative Identification And Restoration Of Images

Subhasis Chaudhuri,Rajbabu Velmurugan,Renu Rameshan

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 identifi cation is to estimate the properties of the imperfect imaging system blur from the observed degraded image together with some statistical char acteristics 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 indepth 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 invari ant 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 prob In this way restoration results can be obtained which outperform the lem 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

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Gene H. Golub,Lui Shui-Hong,T. Luk 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 Digital Image Recovery and Synthesis ,1993 Visual Communications and Image Processing ,1989 **Proceedings** ,1988 **Applications of Digital Image Processing** ,1996 **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 Visual Communications and Image Processing '94 Aggelos Konstantinos Katsaggelos,1994 *Journal of the Optical Society of America* ,2002 *Signal Processing, Theories and Applications* ,1988 Image Processing Algorithms and Techniques ,1992

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