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ABSTRACT

In order to pretore distorted images, the unknown blurs have to be identified from the blursed images these elves. 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 monlinear minimization problem is solved iteratively, your dispense of blur 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. Modeling a blurred image as the output of a 2-dimensional linear system, the identification problem is the problem of estimating the unknown characterising pointspread function (FEF) 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 except a priori knowledge to determine the FEF in this way. Therefore, the information about the blurring process has to be determined from the blurred imame itemif.

The sarliest work on blur identification concentrated on identifying PSDs that here serve only on the unit bi-circle [1]. One of the shortcomings of this method is that pure which he not satisfy this requirement, such as a properly truncated Caussian PSD, cannot be identified. In more recent work [2,3] the original lange is first modeled as a 2-0 satisfympted image is accused noticeless, the image and blur model identification problems is specified as a 2-0 subcoregressive moving-average (ASMA) identification problem, where the At coefficients are related only to the image model, and the Ad coefficients only to the image model (ASMI).

Tetalp et al. [2] derived maximum likelihood estimates for these ARRA parameters, and computed them by first decomposing the FEF 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. sero phase) and has a positive fourier transform. Discood et al. [3] showed that the 2-0 ARRA identification can be done in parallel, where each of the parallel channels requires the identification of a 1-0 complex ARRA process. An intermediate high-order AR approximation step is used to compute these ARRA process.

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 Biur (or image model) coefficients. The resulting nonlinear minimization problem is solved by employing an iterative gradient bessed 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 at upon one complete image they are free from the canadity restrictions imposed by recursive techniques.

In Section II we describe the mathematical (probabilistic) models for the image and degradation. Sect, in Section III, we formulate the identification problem as a ML problem. In this section we siso describe the iterative alporithm for minimising the resulting ML index, force preliminary experimental results are presented in Section IV. Finally, Section V mummarises relevant conclusions and discusses areas of further research.

II. THACK AND DECRADATION MODELS

Basic Hodel Development

It is assumed that the original image f(i,j) (of the size NeW piecks) can be represented by the output of a 2-D AR system

$$f(i,j) = \sum_{k_1 \in w_{k_1}} a(k_1k)f(i-k_1j-k) \cdot v(i,j),$$
 (1)

where $\kappa(k,k)$ are the image model coefficients, and W_k 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-rector nota-

$$f = \lambda f + \nu$$
. (2)

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Jianjun Gao

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