

# A Part Based Skew Estimation Method

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## A Part Based Skew Estimation

### A Part-Based Skew Estimation Method

Abstract—In this paper we propose a part-based skew estimation method which is more robust to larger varieties of text images, such as camera-captured scene images Specifically, the skew angle at each local part of the input image is estimated independently by referring the local part of upright character images stored as a database Then

### Skew Estimation by Parts

Skew Estimation by Parts Soma SHIRAISHI†a), Student Member, Yaokai FENG†, Nonmember, and Seiichi UCHIDA†, Senior Member SUMMARY This paper proposes a new part-based approach for skew estimation of document images The proposed method first estimates skew angles on rather small areas, which are the local parts of characters, and

### Part-Based Skew Estimation for Mathematical Expressions

Part-Based Skew Estimation for Mathematical Expressions Soma Shiraishi, Yaokai Feng, and Seiichi Uchida shiraishi@humanaitkyushu-uacjp {fengyk, uchida}@aitkyushu-uacjp Abstract We propose a novel method for the skew estimation on text images containing mathematical expressions which can be applied to various characters layouts Current

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### A Novel Approach to Skew-Detection and Correction of ...

process of slant angle estimation and thus correcting the slant In [3], a part-based skew estimation method has been implemented which is more

robust to larger varieties of text images Here, the skew angle at each local part of the input image is estimated independently by referring the local part of upright character images stored as a

### **Parsimonious Skew Mixture Models for Model-Based ...**

likelihood estimation for mixtures of multivariate skew-t-distributions is more involved and has been tackled using a number of different variations of the EM algorithm Vrbik and McNicholas (2012) derive closed form solutions for the skew-random variable defined ...

### **THE SKEW-NORMAL DISTRIBUTION IN SPC**

about the family of skew-normal distributions considered in this study, in what concerns properties, random sample generation and inference Section 3 presents some control charts based on the skew-normal distribution Bootstrap control charts for skew-normal processes are developed and some simulation results about their performance are

### **A High-Precision Time Skew Estimation and Correction ...**

A High-Precision Time Skew Estimation and Correction Technique for Time-Interleaved ADCs Armia Salib, Student Member, IEEE, Mark F Flanagan, Senior Member, IEEE, and Barry Cardiff, Member, IEEE Abstract—This paper presents an all-digital background calibration technique for the time skew mismatch in time-interleaved ADCs (TIADCs) The

### **Skew Angle Detection and Correction using Radon Transform**

Key words: Skew estimation, Radon transform, Skew correction 1 INTRODUCTION This paper analyzes a novel method for detecting the skew angle based on the Radon transform, which is briefly discussed The methods presented here are appropriate for small angle rotations, in the interval degrees  $[-90, +90]$  Larger imperfections should be treated

### **Edge-based Connected Component Approach for Skew ...**

Edge-based Connected Component Approach for Skew Correction of Complex Document Images No Institute Given Abstract Skew correction of complex document images is a difficult task We propose an edge-based connected component approach for robust skew correction in documents with complex layout and content

### **A Simple Skew Angle Estimation Technique for Binary ...**

gives the skew angle It is found that Fourier method is computationally expensive for large images [12] A bottom up technique for skew estimation based on Nearest Neighbour Clustering (NNC) is Skew Estimation of Binary Document Images Using Static and Dynamic Thresholds Useful for ...

### **Skew Estimation in Digitized Documents: A Novel Approach**

Skew Estimation in Digitized Documents: A Novel Approach D S Guru Dept of Studies in Computer Science, UoM, method is based on connected component blotching and linear regression The proposed algorithm works well irrespective of the type of script even for a wide range of skew angle (with in  $\pm 90^\circ$ ) 1 Introduction Skew or tilt in images are unavoidable due to their incorrect

### **A Coarse to Fine Skew Estimation Technique for Handwritten ...**

estimation of the word skew After correcting the detected skew the last step of core-region detection and skew correction is repeated iteratively in order to reach a finer word skew estimation that will contribute to a successful handwritten word recognition system Extensive testing based on various test-sets

### **Skew Angle Estimation of Urdu Document Images: A Moments ...**

skew angle is calculated using Central moments and centroid of the document image Experimental results are found to be satisfactory and compared

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with other skew detection techniques Index Terms— Skew Estimation, Moments, Optical Character Recognition, Urdu Document I INTRODUCTION  
System based optical character recognition has received

### **A novel technique for estimation of skew in binary text ...**

niques for estimation of skew angle of a text binary documents based on linear regression analysis The techniques are very simple compared to the above methods since the methods do not involve any expensive methods like Hough transform and others to determine skew angles for documents The techniques work based on segmentation text lines from

### **1 Distributed Clock Skew and Offset Estimation in Wireless ...**

Distributed Clock Skew and Offset Estimation in Wireless Sensor Networks: Asynchronous Algorithm and Convergence Analysis Jian Du and Yik-Chung Wu Abstract In this paper, we propose a fully distributed algorithm for joint clock skew and offset estimation in wireless sensor networks based on belief propagation In the proposed algorithm, each

### **Skew angle estimation for printed and handwritten ...**

A skew estimation algorithm for printed and handwritten documents, based on the document's horizontal projection profile and its Wigner-Ville distribution, is presented The proposed algorithm is able to correct skew angles that range between 289 and 898 detecting

### **Estimation of Skew Angles for Scanned Documents Based on ...**

1 Estimation of Skew Angles for Scanned Documents Based on Piecewise Covering by Parallelograms Chien-Hsing Chou, Shih-Yu Chu, and Fu Chang Institute of Information Science, Academia Sinica, Taipei, Taiwan, ROC