

## CONTENTS

Preface	
<i>H. Bunke, P. S. P. Wang &amp; H. Baird</i>	1
<b>Preprocessing and Segmentation</b>	
A New Parallel Thinning Algorithm	
<i>Y. Y. Zhang &amp; P. S. P. Wang</i>	3
Background Structure in Document Images	
<i>H. S. Baird</i>	17
<b>Analysis of Structured Documents</b>	
Analysis of Form Images	35
<i>D. Wang &amp; S. N. Srihari</i>	
Model-based Analysis and Understanding of Check Forms	57
<i>T. M. Ha &amp; H. Bunke</i>	
Document Structures: A Survey	85
<i>Y. Y. Tang &amp; C. Y. Suen</i>	
<b>Line Drawing and Map Analysis</b>	
Automatic Input of Logic Diagrams by Recognizing Loop-Symbols and Rectilinear Connections	117
<i>S. H. Kim &amp; J. H. Kim</i>	
Syntactic Analysis of Technical Drawing Dimensions	135
<i>S. Collin &amp; D. Colnet</i>	
Recognition of Elevation Value in Topographic Maps by Multi-angled Parallelism	153
<i>H. Yamada, K. Yamamoto, T. Saito &amp; K. Hosokawa</i>	
<b>Machine Printed Character and Handwriting Recognition</b>	
Character Recognition by Signature Approximation	175
<i>N. Papamarkos, I. Spiliotis &amp; A. Zoumadakis</i>	
An Adaptive Modular Neural Network with Application to Unconstrained Character Recognition	193
<i>L. Mui, A. Agarwal, A. Gupta &amp; P. S. P. Wang</i>	

A Model-Based Split-and-Merge Method for Character String Recognition <i>H. Nishida &amp; S. Mori</i>	209
A Robust Stroke Extraction Method for Handwritten Chinese Characters <i>H.-D. Chang &amp; J.-F. Wang</i>	227
Handprinted Chinese Character Recognition Using Probability Distribution Feature <i>T. F. Li &amp; S. S. Yu</i>	245
<b>Contextual Processing</b>	
An Algorithm for Matching OCR-Generated Text Strings <i>S. V. Rice, J. Kanai &amp; T. A. Nartker</i>	263
Index	273