

Table of Contents

Welcome from the Co-Chairs.....	iii
Program Committee	iv

Oral Papers

Section I. Image Processing

Mosaicing-by-Recognition for Recognizing Texts Captured in Multiple Video Frames <i>Seiichi Uchida, Hiromitsu Miyazaki and Hiroaki Sakoe</i>	3
Super-Resolution Text using the Teager Filter <i>Céline Mancas-Thillou and Majid Mirmehdi</i>	10
Camera Document Restoration for OCR <i>Shijian Lu and Chew Lim Tan</i>	17
Unwarping Images of Curved Documents Using Global Shape Optimization <i>Jian Liang, Daniel DeMenthon and David Doermann</i>	25
A Robust Method for Tracking Scene Text in Video Imagery <i>Gregory K. Myers and Brian Burns</i>	30

Section II. Recognition

Grayscale Feature Combination in Recognition Based Segmentation for Degraded Text String Recognition <i>Jun Sun, Yoshinobu Hotta, Katsuhito Fujimoto, Yutaka Katsuyama and Satoshi Naoi</i>	39
Recognition of Low-Resolution Characters by a Generative Learning Method <i>Hiroyuki Ishida, Shinsuke Yanadume, Tomokazu Takahashi Ichiro Ide, Yoshito Mekada and Hiroshi Murase</i>	45
Using Adaboost to Detect and Segment Characters from Natural Scenes <i>Kaihua Zhu, Feihu Qi, Renjie Jiang, Li Xu Masatoshi Kimachi, Yue Wu and Tomoyoshi Aizawa</i>	52
Data Embedding for Camera-Based Character Recognition <i>Seiichi Uchida, Masakazu Iwamura, Shinichiro Omachi and Koichi Kise</i>	60
Recognition with Supplementary Information —How Many Bits Are Lacking for 100% Recognition?— <i>Masakazu Iwamura, Seiichi Uchida, Shinichiro Omachi and Koichi Kise</i>	68

Section III. Systems

Oblivious Document Capture and Real-Time Retrieval <i>Christoph H. Lampert, Tim Braun, Adrian Ulges Daniel Keysers and Thomas M. Breuel</i>	79
Hashing with Local Combinations of Feature Points and Its Application to Camera-Based Document Image Retrieval — Retrieval in 0.14 Second from 10,000 Pages— <i>Tomohiro Nakai, Koichi Kise and Masakazu Iwamura</i>	87
Experiments in Video-Based Whiteboard Reading <i>Gernot A. Fink, Markus Wienecke and Gerhard Sagerer</i>	95
Web-Based Deployment of Text Locating Algorithms <i>Simon M. Lucas and Carlos R. Jaimez González</i>	101

Poster Papers

Pattern Classification Using Weighted Average Patterns of Categorical k -Nearest Neighbors <i>Yu Takigawa, Seiji Hotta, Senya Kiyasu and Sueharu Miyahara</i>	111
A Recursive Approach for Bleed-Through Removal <i>Fadoua Drira and Hubert Emptoz</i>	119
Text Detection in Indoor/Outdoor Scene Images <i>B. Gatos, I. Pratikakis, K. Kepene and S. J. Perantonis</i>	127
A Text Detection Technique Applied in the Framework of a Mobile Camera-Based Application <i>Silvio Ferreira, Vincent Garin and Bernard Gosselin</i>	133
Isolated Character Recognition by Searching Features in Scene Images <i>Kazuya Negishi, Masakazu Iwamura, Shinichiro Omachi and Hirotomo Aso</i>	140
Perspective Correction Methods for Camera-Based Document Analysis <i>L. Jagannathan and C. V. Jawahar</i>	148

Keynote Presentation

New Chances and New Challenges in Camera-Based Document Analysis and Recognition <i>In-Jung Kim</i>	157
<i>Author Index</i>	158