1. Record Nr. UNINA9910813508403321 Autore Chaudhuri B. B (Bidyut Baran) **Titolo** Advances in digital document processing and retrieval / / editors, Bidyut Baran Chaudhuri, Swapan Kumar Parui, Indian Statistical Institute, India Pubbl/distr/stampa New Jersey:,: World Scientific,, [2014] 2014 ISBN 981-4368-71-7 Descrizione fisica 1 online resource (x, 323 pages): illustrations Statistical science and interdisciplinary research, , 1793-6195;; Collana volume 13 Platinum jubilee series Disciplina 025.04 Soggetti Information storage and retrieval systems Documentation - Data processing Digital preservation Document imaging systems Electronic publishing Multimedia systems Electronic records Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Foreword; Preface; Contents; 1. Document Image Analysis using Markovian Models: Application to Historical Documents; 1.1. Introduction; 1.2. Hidden Markov Random Field Models; 1.2.1. Theoretical foundations; 1.2.1.1. Simulated annealing; 1.2.1.2. Iterated Conditional Modes (ICM); 1.2.1.3. Highest Confidence First (HCF) algorithm; 1.2.1.4. 2D Dynamic Programming; 1.2.2. Application of MRF labelling to handwritten document segmentation; 1.2.2.1. Probability densities; 1.2.2.2. Clique potential functions; 1.2.2.3. Observations: 1.2.2.4. Decoding strategy: 1.2.3. Results: 1.2.3.1. Zone labelling 1.2.3.2. Text line labelling 1.2.3.3. Conclusion; 1.3. Conditional

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Sommario/riassunto

From the participation of researchers in most important international conferences in the field, it is noted that activities in automatic document processing have been continuously growing. This book is an edited volume in Digital Document Processing where the chapters are written by several internationally renowned researchers in the domain. It will be useful for both students and researchers working on various aspects of document image analysis and recognition problems. It contains chapters on topics that are not covered by any textbook, but are more futuristic like ""Going beyond the Myth of