

RECOGNITION



Graphics Recognition

Thomas C. Henderson



Graphics Recognition:

Document Image Analysis K.C. Santosh, 2018-09-18 The book focuses on one of the key issues in document image processing graphical symbol recognition which is a sub field of the larger research domain of pattern recognition It covers several approaches statistical structural and syntactic and discusses their merits and demerits considering the context Through comprehensive experiments it also explores whether these approaches can be combined The book presents research problems state of the art methods that convey basic steps as well as prominent techniques evaluation metrics and protocols and research standpoints directions that are associated with it However it is not limited to straightforward isolated graphics visual patterns recognition it also addresses complex and composite graphical symbols recognition which is motivated by real world industrial problems

Graphics Recognition Young-Bin Kwon, Jean-Marc Ogier, 2013-02-11 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Workshop on Graphics Recognition GREC 2011 held in Seoul Korea September 15 16 2011 The 25 revised full papers presented were carefully selected from numerous submissions Graphics recognition is a subfield of document image analysis that deals with graphical entities in engineering drawings sketches maps architectural plans musical scores mathematical notation tables and diagrams Accordingly the conference papers are organized in 5 technical sessions covering the topics such as map and ancient documents symbol and logo recognition sketch and drawings performance evaluation and challenge processing

Graphics Recognition. Current Trends and Evolutions Alicia Fornés, Bart Lamiroy, 2018-11-22 This book constitutes the thoroughly refereed post conference proceedings of the 12th International Workshop on Graphics Recognition GREC 2017 held in Kyoto Japan in November 2017 The 10 revised full papers presented were carefully reviewed and selected from 14 initial submissions They contain both classical and emerging topics of graphics recognition namely analysis and detection of diagrams search and classification optical music recognition interpretation of engineering drawings and maps

An Introduction to Interpretation of Graphic Images Sergey Ablameyko, 1997 The image analysis community has put much effort into developing systems for the automatic reading of various types of documents containing text graphic information and pictures A closely related but much more problematic task is the reading and interpretation of line drawings such as maps engineering drawings and diagrams This book considers the problem in detail analyzes its theoretical foundations and analyzes existing approaches and systems

Graphics Recognition. Ten Years Review and Future Perspectives Wenyin Liu, Josep Lladós, 2006-10-15 This book constitutes the thoroughly refereed post proceedings of the 6th International Workshop on Graphics Recognition GREC 2005 held in Hong Kong China August 2005 The book presents 37 revised full papers together with a panel discussion report organized in topical sections on engineering drawings vectorization and recognition symbol recognition graphic image analysis structural document analysis sketching and online graphics recognition curves and shape processing and graphics recognition contest results

Graphics Recognition. Current Trends and Challenges Bart Lamiroy, Jean-Marc

Ogier,2014-09-18 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Workshop on Graphics Recognition GREC 2013 held in Bethlehem PA USA in August 2013 The 20 revised full papers presented were carefully reviewed and selected from 32 initial submissions Graphics recognition is a subfield of document image analysis that deals with graphical entities in engineering drawings sketches maps architectural plans musical scores mathematical notation tables and diagrams Accordingly the conference papers are organized in 5 topical sessions on symbol spotting and retrieval graphics recognition in context structural and perceptual based approaches low level processing and performance evaluation and ground truthing Graphics Recognition. Recent Advances and New Opportunities Liu Wenyin,Josep Lladós,Jean-Marc Ogier,2008-09-22 This book contains refereed and improved papers presented at the Seventh IAPR Workshop on Graphics Recognition GREC2007 held in Curitiba Brazil September 20 21 2007 The GREC workshops provide an excellent opportunity for researchers and practitioners at all levels of experience to meet colleagues and to share new ideas and knowledge about graphics recognition methods Graphics recognition is a subfield of document image analysis that deals with graphical entities in engineering drawings sketches maps architectural plans musical scores mathematical notation tables diagrams etc GREC2007 continued the tradition of past workshops held at Penn State University USA GREC 1995 LNCS Volume 1072 Springer 1996 Nancy France GREC 1997 LNCS Volume 1389 Springer 1998 Jaipur India GREC 1999 LNCS Volume 1941 Springer 2000 Kingston Canada GREC 2001 LNCS Volume 2390 Springer 2002 Barcelona Spain GREC 2003 LNCS Volume 3088 Springer 2004 and Hong Kong China GREC 2005 LNCS Volume 3926 Springer 2006 GREC2007 was also the first edition of a GREC workshop held at the same location of the ICDAR conference and it facilitated people to attend to both events The program of GREC2007 was organized in a single track 2 day workshop It comprised several sessions dedicated to specific topics **Symbol Spotting in Digital Libraries** Marçal Rusiñol,Josep Lladós,2010-05-25 Pattern recognition basically deals with the recognition of patterns shapes objects things in images Document image analysis was one of the very first applications of pattern recognition and even of computing But until the 1980s research in this field was mainly dealing with text based documents including OCR Optical Character Recognition and page layout analysis Only a few people were looking at more specific documents such as music sheet bank cheques or forms The community of graphics recognition became visible in the late 1980s Their specific interest was to recognize high level objects represented by line drawings and graphics The specific pattern recognition problems they had to deal with was raster to graphics conversion i.e recognizing graphical primitives in a cluttered pixel image text graphics separation and symbol recognition The specific problem of symbol recognition in graphical documents has received a lot of attention The symbols to be recognized can be musical notation electrical symbols architectural objects pictograms in maps etc At first glance the symbol recognition problems seems to be very similar to that of character recognition but all characters are basically a subset of symbols Therefore the large know how in OCR has been extensively used in graphical symbol recognition starting with

segmenting the document to extract the symbols extracting features from the symbols and then recognizing them through classification or matching with respect to a training learning set Machine Interpretation of Line Drawing Images Sergey Ablameyko, Tony Pridmore, 2012-12-06 Line drawing interpretation is a challenging area with enormous practical potential At present many companies throughout the world invest large amounts of money and human resource in the input of paper drawings into computers The technology needed to produce an image of a drawing is widely available but the transformation of these images into more useful forms is an active field of research and development Machine Interpretation of Line Drawing Images describes the theory and practice underlying the computer interpretation of line drawing images and shows how line drawing interpretation systems can be developed The authors show how many of the problems can be tackled and provide a thorough overview of the processes underpinning the interpretation of images of line drawings **Image**

Analysis Applications Rangacha Kasturi, 2020-12-18 This book presents a wide spectrum of applications where image analysis has been successfully employed providing the reader with an insight into the merits or demerits of a particular technique It deals with the domain of graphics recognition document analysis and map data interpretation *Document Analysis Systems VI* Simone Marinai, Andreas Dengel, 2004-12-10

This volume contains papers selected for presentation at the 6th IAPR Workshop on Document Analysis Systems DAS 2004 held during September 8-10 2004 at the University of Florence Italy Several papers represent the state of the art in a broad range of traditional topics such as layout analysis applications to graphics recognition and handwritten documents Other contributions address the description of complete working systems which is one of the strengths of this workshop Some papers extend the application domains to other media like the processing of Internet documents The peculiarity of this 6th workshop was the large number of papers related to digital libraries and to the processing of historical documents a taste which frequently requires the analysis of color documents A total of 17 papers are associated with these topics whereas two years ago in DAS 2002 only a couple of papers dealt with these problems In our view there are three main reasons for this new wave in the DAS community From the scientific point of view several research fields reached a thorough knowledge of techniques and problems that can be effectively solved and this expertise can now be applied to new domains Another incentive has been provided by several research projects funded by the EC and the NSF on topics related to digital libraries

Graphics Recognition. Recent Advances and Perspectives Josep Lladós, Young-Bin Kwon, 2004-10-14 1

This book contains refereed and improved papers presented at the 5th International Workshop on Graphics Recognition GREC 2003 GREC 2003 was held in the Computer Vision Center in Barcelona Spain during July 30-31 2003

The GREC workshop is the main activity of the IAPR TC10 the Technical 2 Committee on Graphics Recognition Edited volumes from the previous workshops in the series are available as Lecture Notes in Computer Science LNCS Volume 1072 GREC 1995 at Penn State University USA LNCS Volume 1389 GREC 1997 in Nancy France LNCS Volume 1941 GREC 1999 in Jaipur

India and LNCS Volume 2390 GREC 2001 in Kingston Canada Graphics recognition is a particular eld in the domain of document ana sis that combines pattern recognition and image processing techniques for the analysis of any kind of graphical information in documents either from paper or electronic formats Topics of interest for the graphics recognition community are vectorization symbol recognition analysis of graphic documents with agrammatic notation like electrical diagrams architectural plans engineering drawings musical scores maps etc graphics based information retrieval p formance evaluation in graphics recognition and systems for graphics recog tion Inadditiontotheclassicobjectives inrecentyearsgraphicsrecognitionhas faced up to new and promising perspectives some of them in conjunction with other a ne scienti c communities Examples of that are sketchy interfaces and on line graphics recognition in the framework of human computer interaction or query by graphic content for retrieval and browsing in large format graphic d uments digital libraries and Web applications Thus the combination of classic challenges with new research interests gives the graphics recognition eld an active scienti c community with a promising future

Graph-based Keyword Spotting Michael Stauffer, Andreas Fischer, Kaspar Riesen, 2019-07-24 Keyword Spotting KWS has been proposed as a flexible and more error tolerant alternative to full transcriptions In most cases it allows to retrieve arbitrary query words in handwritten historical document This comprehensive compendium gives a self contained preamble and visually attractive description to the field of graph based KWS The volume highlights a profound insight into each step of the whole KWS pipeline viz image preprocessing graph representation and graph matching Written by two world renowned co authors this unique title combines two very current research fields of graph based pattern recognition and document analysis The book serves as an attractive teaching material for graduate students as well as a useful reference text for professionals academics and researchers

Graphics Recognition. Algorithms and Applications Dorothea Blostein, 2002-08-21 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Graphics Recognition GREC 2001 held in Kingston Ontario Canada in September 2001 with the sponsorship of IAPR The 32 revised full papers presented went through two rounds of reviewing and improvement The papers are organized in topical sections on technical drawings and forms validation and user interfaces symbol segmentation and recognition perceptual organization map recognition graphics recognition technology vectorization and early processing mathematical notation charts and music notation and arc segmentation contest

Digital Document Processing Bidyut B. Chaudhuri, 2007-03-13 In this book all the major and frontier topics in the field of document analysis are brought together into a single volume creating a unique reference source Highlights include Document structure analysis followed by OCR of Japanese Tibetan and Indian printed scripts Online and offline handwritten text recognition approaches Japanese postal and Arabic check processing Document image quality modelling mathematical expression recognition graphics recognition document information retrieval super resolution text metadata extraction in digital library Biometric and forensic aspects individuality of handwriting detection Web document

analysis text and hypertext mining and bank check data mining Containing chapters written by some of the most eminent researchers active in this field this book can serve as a handbook for the research scholar as well as a supporting book for advanced graduate students interested in document processing or image analysis **Advances in Document Image**

Analysis Nabeel A. Murshed, Flavio Bortolozzi, 1997-10-22 This book constitutes the refereed proceedings of the First Brazilian Symposium on Document Image Analysis BSDIA 97 held in Curitiba in November 1997 The volume presents 19 revised full papers selected from 30 submissions as well as eight full paper invited contributions by internationally leading authorities The invited papers give a unique survey of the state of the art in the area The selected papers are organized in sections on low level processing document processing and retrieval handwriting recognition signature verification and application systems **Theory and Application of Diagrams** Michael Anderson, Peter Cheng, Volker Haarslev, 2003-07-31 Diagrams 2000 is dedicated to the memory of Jon Barwise Diagrams 2000 was the first event in a new interdisciplinary conference series on the Theory and Application of Diagrams It was held at the University of Edinburgh Scotland September 1-3 2000 Driven by the pervasiveness of diagrams in human communication and by the increasing availability of graphical environments in computerized work the study of diagrammatic notations is emerging as a research field in its own right This development has simultaneously taken place in several scientific disciplines including amongst others cognitive science artificial intelligence and computer science Consequently a number of different workshop series on this topic have been successfully organized during the last few years Thinking with Diagrams Theory of Visual Languages Reasoning with Diagrammatic Representations and Formalizing Reasoning with Visual and Diagrammatic Representations Diagrams are simultaneously complex cognitive phenomena and sophisticated computational artifacts So to be successful and relevant the study of diagrams must as a whole be interdisciplinary in nature Thus the workshop series mentioned above decided to merge into Diagrams 2000 as the single interdisciplinary conference for this exciting new field It is intended that Diagrams 2000 should become the premier international conference series in this area and provide a forum with sufficient breadth of scope to encompass researchers from all academic areas who are studying the nature of diagrammatic representations and their use by humans and in machines Performance Characterization in Computer Vision Reinhard Klette, H. Siegfried Stiehl, Max A. Viergever, Koen L. Vincken, 2013-04-17 This edited volume addresses a subject which has been discussed intensively in the computer vision community for several years Performance characterization and evaluation of computer vision algorithms are of key importance particularly with respect to the configuration of reliable and robust computer vision systems as well as the dissemination of reconfigurable systems in novel application domains Although a plethora of literature on this subject is available for certain areas of computer vision the research community still faces a lack of a well grounded generally accepted and eventually standardized methods The range of fundamental problems encompasses the value of synthetic images in experimental computer vision the selection of a representative set of real images related to specific domains and

tasks the definition of ground truth given different tasks and applications the design of experimental test beds the analysis of algorithms with respect to general characteristics such as complexity resource consumption convergence stability or range of admissible input data the definition and analysis of performance measures for classes of algorithms the role of statistics based performance measures the generation of data sheets with performance measures of algorithms supporting the system engineer in his configuration problem and the validity of model assumptions for specific applications of computer vision

Analysis of Engineering Drawings and Raster Map Images Thomas C. Henderson, 2013-09-06 This book covers up to date methods and algorithms for the automated analysis of engineering drawings and digital cartographic maps The Non Deterministic Agent System NDAS offers a parallel computational approach to such image analysis The book describes techniques suitable for persistent and explicit knowledge representation for engineering drawings and digital maps It also highlights more specific techniques e g applying robot navigation and mapping methods to this problem Also included are more detailed accounts of the use of unsupervised segmentation algorithms to map images Finally all these threads are woven together in two related systems NDAS and AMAM Automatic Map Analysis Module

Current Challenges in Patent Information Retrieval Mihai Lupu, Katja Mayer, Noriko Kando, Anthony J. Trippe, 2017-03-24 This second edition provides a systematic introduction to the work and views of the emerging patent search research and innovation communities as well as an overview of what has been achieved and perhaps even more importantly of what remains to be achieved It revises many of the contributions of the first edition and adds a significant number of new ones The first part Introduction to Patent Searching includes two overview chapters on the peculiarities of patent searching and on contemporary search technology respectively and thus sets the scene for the subsequent parts The second part on Evaluating Patent Retrieval then begins with two chapters dedicated to patent evaluation campaigns followed by two chapters discussing complementary issues from the perspective of patent searchers and from the perspective of related domains notably legal search High Recall Search includes four completely new chapters dealing with the issue of finding only the relevant documents in a reasonable time span The last and with six papers the largest part on Special Topics in Patent Information Retrieval covers a large spectrum of research in the patent field from classification and image processing to translation Lastly the book is completed by an outlook on open issues and future research Several of the chapters have been jointly written by intellectual property and information retrieval experts However members of both communities with a background different to that of the primary author have reviewed the chapters making the book accessible to both the patent search community and to the information retrieval research community It also not only offers the latest findings for academic researchers but is also a valuable resource for IP professionals wanting to learn about current IR approaches in the patent domain

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