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Kavallieratou, Laurence Likforman-Sulem, 2018-10-03 This book is a printed edition of the Special Issue Document Image Processing that was published in J Imaging **Handbook Of Character Recognition And Document Image Analysis**

Horst Bunke, Patrick S P Wang, 1997-05-02 Optical character recognition and document image analysis have become very important areas with a fast growing number of researchers in the field This comprehensive handbook with contributions by eminent experts presents both the theoretical and practical aspects at an introductory level wherever possible

Document Image Processing for Scanning and Printing Ilia V. Safonov, Ilya V. Kurilin, Michael N.

Rychagov, Ekaterina V. Tolstaya, 2019-03-25 This book continues first one of the same authors Adaptive Image Processing Algorithms for Printing and presents methods and software solutions for copying and scanning various types of documents by conventional office equipment offering techniques for correction of distortions and enhancement of scanned documents techniques for automatic cropping and de skew approaches for segmentation of text and picture regions documents classifiers approach for vectorization of symbols by approximation of their contour by curves methods for optimal compression of scanned documents algorithm for stitching parts of large originals copy protection methods by microprinting and embedding of hidden information to hardcopy algorithmic approach for toner saving In addition method for integral printing is considered Described techniques operate in automatic mode thanks to machine learning or ingenious heuristics Most the techniques presented have a low computational complexity and memory consumption due to they were designed for firmware of embedded systems or software drivers The book reflects the authors practical experience in algorithm

development for industrial R D *Computer Vision, Graphics, and Image Processing* Snehasis Mukherjee, Suvadip Mukherjee, Dipti Prasad Mukherjee, Jayanthi Sivaswamy, Suyash Awate, Srirangaraj Setlur, Anoop M. Namboodiri, Santanu Chaudhury, 2017-10-19 This book constitutes the refereed conference proceedings of the ICVGIP 2016 Satellite Workshops WCVA DAR and MedImage held in Guwahati India in December 2016 The papers presented are extended versions of the papers of three of the four workshops Computer Vision Applications Document Analysis and Recognition and Medical Image Processing The Computer Vision Application track received 52 submissions and after a rigorous review process 18 papers were presented The focus is mainly on industrial applications of computer vision and related technologies The Document

Analysis and Recognition track received 10 submissions from which 7 papers were selected The MedImage workshops focuses on problems in medical image computing and received 14 papers from which 9 were accepted for presentation in this book

Handbook of Character Recognition and Document Image Analysis Horst Bunke,Patrick Shen-peí Wang,1997 Optical character recognition and document image analysis have become very important areas with a fast growing number of researchers in the field This comprehensive handbook with contributions by eminent experts presents both the theoretical and practical aspects at an introductory level wherever possible

Document Layout Analysis Showmik Bhowmik,2023-07-31 Document layout analysis DLA is a crucial step towards the development of an effective document image processing system In the early days of document image processing DLA was not considered as a complete and complex research problem rather just a pre processing step having some minor challenges The main reason for that is the type of layout being considered for processing was simple Researchers started paying attention to this complex problem as they come across a large variety of documents This book presents a clear view of the past present and future of DLA and it also discusses two recent methods developed to address the said problem

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

Artificial Intelligence and Evolutionary Computations in Engineering Systems S. Chandramohan,Bala Venkatesh,Subhransu Sekhar Dash,Swagatam Das,C. Sharmeela,2021-08-18 This book gathers selected papers presented at the 6th International Conference on Artificial Intelligence and Evolutionary

Computations in Engineering Systems held at the Anna University Chennai India from 20 to 22 April 2020 It covers advances and recent developments in various computational intelligence techniques with an emphasis on the design of communication systems In addition it shares valuable insights into advanced computational methodologies such as neural networks fuzzy systems evolutionary algorithms hybrid intelligent systems uncertain reasoning techniques and other machine learning methods and their application to decision making and problem solving in mobile and wireless communication networks

Document Analysis Systems Giorgos Sfikas,George Retsinas,2024-09-10 This book constitutes the refereed proceedings of the 16th IAPR International Workshop on Document Analysis Systems DAS 2024 held in Athens Greece during August 30 31 2024 The 27 full papers presented were carefully reviewed and selected from 43 submissions addressing topics like document analysis and understanding retrieval and VQA layout analysis document classification OCR correction and NLP recognition systems and historical documents

Digital Libraries for Open Knowledge Mark Hall,Tanja Merčun,Thomas Risse,Fabien Duchateau,2020-08-17 This book constitutes the proceedings of the 24th International Conference on Theory and Practice of Digital Libraries TPDL 2020 held in Lyon France in August 2020 The 14 full papers and 4 short papers presented were carefully reviewed and selected from 53 submissions TPDL 2020 attempts to facilitate establishing connections and convergences between diverse research communities such as Digital Humanities Information Sciences and others that could benefit from ecosystems offered by digital libraries and repositories The papers present a wide range of the following topics knowledge graphs and linked data quality assurance in digital libraries ontology design user requirements and behavior research data management and discovery and digital cultural heritage The conference was held virtually due to the COVID 19 pandemic

Multimedia Security 2 William Puech,2022-07-20 Today more than 80% of the data transmitted over networks and archived on our computers tablets cell phones or clouds is multimedia data images videos audio 3D data The applications of this data range from video games to healthcare and include computer aided design video surveillance and biometrics It is becoming increasingly urgent to secure this data not only during transmission and archiving but also during its retrieval and use Indeed in today s all digital world it is becoming ever easier to copy data view it unrightfully steal it or falsify it Multimedia Security 2 analyzes issues relating to biometrics protection integrity and encryption of multimedia data It also covers aspects such as crypto compression of images and videos homomorphic encryption data hiding in the encrypted domain and secret sharing

Intelligent Information and Database Systems

Ngoc Thanh Nguyen,Duong Hung Hoang,Tzung-Pei Hong,Hoang Pham,Bogdan Trawiński,2018-03-03 The two volume set LNAI 10751 and 10752 constitutes the refereed proceedings of the 10th Asian Conference on Intelligent Information and Database Systems ACIIDS 2018 held in Dong Hoi City Vietnam in March 2018 The total of 133 full papers accepted for publication in these proceedings was carefully reviewed and selected from 423 submissions They were organized in topical sections named Knowledge Engineering and Semantic Web Social Networks and Recommender Systems Text Processing and

Information Retrieval Machine Learning and Data Mining Decision Support and Control Systems Computer Vision Techniques Advanced Data Mining Techniques and Applications Multiple Model Approach to Machine Learning Sensor Networks and Internet of Things Intelligent Information Systems Data Structures Modeling for Knowledge Representation Modeling Storing and Querying of Graph Data Data Science and Computational Intelligence Design Thinking Based R Intelligent and Contextual Systems Intelligent Systems and Algorithms in Information Sciences Intelligent Applications of Internet of Thing and Data Analysis Technologies Intelligent Systems and Methods in Biomedicine Intelligent Biomarkers of Neurodegenerative Processes in Brain Analysis of Image Video and Motion Data in Life Sciences Computational Imaging and Vision Computer Vision and Robotics Intelligent Computer Vision Systems and Applications Intelligent Systems for Optimization of Logistics and Industrial Applications

Innovative Computing and Communications Aboul Ella Hassanien, Sameer Anand, Ajay Jaiswal, Prabhat Kumar, 2025-09-30 This book includes high quality research papers presented at the Eighth International Conference on Innovative Computing and Communication ICICC 2025 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 14 15 February 2025 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

Information and Software Technologies Robertas Damaševičius, Giedrė Vasiljevienė, 2018-08-28 This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies ICIST 2018 held in Vilnius Lithuania in October 2018 The 48 papers presented were carefully reviewed and selected from 124 submissions The papers are organized in topical sections on information systems business intelligence for information and software systems software engineering and information technology applications

Optimization Models in Steganography Using Metaheuristics Dipti Kapoor Sarmah, Anand J. Kulkarni, Ajith Abraham, 2020-02-25 This book explores the use of a socio inspired optimization algorithm the Cohort Intelligence algorithm along with Cognitive Computing and a Multi Random Start Local Search optimization algorithm One of the most important types of media used for steganography is the JPEG image Considering four important aspects of steganography techniques picture quality high data hiding capacity secret text security and computational time the book provides extensive information on four novel image based steganography approaches that employ JPEG compression Academics scientists and engineers engaged in research development and application of steganography techniques optimization and data analytics will find the book's comprehensive coverage an invaluable resource

The Structure of Multimodal Documents Tuomo Hiippala, 2015-06-05 This book develops a new framework for describing the structure of multimodal documents how language image layout and other modes of communication work together to convey meaning Building on recent research in multimodal analysis functional linguistics and information design the book examines the

textual visual and spatial aspects of page based multimodal documents and employs an analytical model to describe and interpret their structure using the concepts of semiotic modes medium and genre To demonstrate and test this approach the study performs a systematic longitudinal analysis of a corpus of multimodal documents within a single genre an extensively annotated corpus of tourist brochures produced between 1967 2008 The book provides multimodal discourse analysts with methodological tools to draw empirically based conclusions about multimodal documents and will be a valuable resource for researchers planning to develop and study multimodal corpora

Hybrid Soft Computing for Image Segmentation

Siddhartha Bhattacharyya,Paramartha Dutta,Sourav De,Goran Klepac,2016-11-12 This book proposes soft computing techniques for segmenting real life images in applications such as image processing image mining video surveillance and intelligent transportation systems The book suggests hybrids deriving from three main approaches fuzzy systems primarily used for handling real life problems that involve uncertainty artificial neural networks usually applied for machine cognition learning and recognition and evolutionary computation mainly used for search exploration efficient exploitation of contextual information and optimization The contributed chapters discuss both the strengths and the weaknesses of the approaches and the book will be valuable for researchers and graduate students in the domains of image processing and computational intelligence

Digital Libraries and Multimedia Archives Maristella Agosti,Marco Bertini,Stefano Ferilli,Simone Marinai,Nicola Orio,2017-04-05 This book constitutes the thoroughly refereed proceedings of the 12th Italian Research Conference on Digital Libraries IRCDL 2016 held in Firenze Italy in February 2016 The 15 papers presented were carefully selected from 23 submissions and cover topics such as formal methods long term preservation metadata creation management and curation multimedia ontology and linked data The papers deal with numerous multidisciplinary aspects ranging from computer science to humanities in the broader sense including research areas such as archival and library information sciences information management systems semantic technologies information retrieval new knowledge environments

Collaborative Computing: Networking, Applications and Worksharing Honghao Gao,Xinheng Wang,Yuyu Yin,Muddesar Iqbal,2019-02-06 This book constitutes the thoroughly refereed proceedings of the 14th International Conference on Collaborative Computing Networking Applications and Worksharing CollaborateCom 2018 held in Shanghai China in December 2018 The 43 full and 19 short papers presented were carefully reviewed and selected from 106 submissions The papers reflect the conference sessions as follows vehicular networks social networks information processing data detection and retrieval collaborative computing social networks vehicular networks networks and sensors information processing and collaborative computing mobility and software testing and formal verification web services and image information processing web services and remote sensing

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