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Advances in Information Retrieval - Mohand Boughanem 2009-04-20

This book constitutes the refereed proceedings of the 30th annual European Conference on Information Retrieval Research, ECIR 2009, held in Toulouse, France in April 2009. The 42 revised full papers and 18 revised short papers presented together with the abstracts of 3 invited lectures and 25 poster papers were carefully reviewed and selected from 188 submissions. The papers are organized in topical sections on retrieval model, collaborative IR / filtering, learning, multimedia - metadata, expert search - advertising, evaluation, opinion detection, web IR, representation, clustering / categorization as well as distributed IR.

[Advances in XML Information Retrieval and Evaluation](#) - Norbert Fuhr 2006-06-28

This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop of the Initiative for the Evaluation of XML Retrieval, INEX 2005, held at Dagstuhl

Castle, Germany, in November 2005. The book presents 41 revised full papers, organized in topical sections on methodology, multiple retrieval, ad-hoc retrieval, relevance feedback, natural language queries, and more heterogeneous retrieval, interactive retrieval, document mining, and multimedia retrieval.

Multimedia Technologies: Concepts, Methodologies, Tools, and Applications - Syed, Mahbubur Rahman 2008-06-30

"This book offers an in-depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future"--Provided by publisher.

Multimedia Information Retrieval - Roberto Raieli 2013-07-31

Novel processing and searching tools for the management of new multimedia documents have developed. Multimedia Information Retrieval (MIR) is an organic system made up of Text Retrieval (TR); Visual Retrieval (VR); Video

Retrieval (VDR); and Audio Retrieval (AR) systems. So that each type of digital document may be analysed and searched by the elements of language appropriate to its nature, search criteria must be extended. Such an approach is known as the Content Based Information Retrieval (CBIR), and is the core of MIR. This novel content-based concept of information handling needs to be integrated with more traditional semantics. Multimedia Information Retrieval focuses on the tools of processing and searching applicable to the content-based management of new multimedia documents. Translated from Italian by Giles Smith, the book is divided into two parts. Part one discusses MIR and related theories, and puts forward new methodologies; part two reviews various experimental and operating MIR systems, and presents technical and practical conclusions. Gives a complete, organic picture of MIR and CBIR Proposes a novel conceptualisation around the ideas of Information Retrieval (IR) and

digital document management in the context of Library and Information Science (LIS) Relevant for both library and information science and information technology specialists
Medical and Care Compunetics 3 - Lodewijk Bos 2006

For citizen/patient-related information, it is necessary to use the latest medical and care compunetics. This publication covers aspects concerning information supply to patient and professional; electronic health records, its standards, its social implications; and developments in medical and care compunetics.
Topics in Acoustic Echo and Noise Control - Eberhard Hänsler 2006-08-26

This book treats important topics in "Acoustic Echo and Noise Control" and reports the latest developments. Methods for enhancing the quality of transmitted speech signals are gaining growing attention in universities and in industrial development laboratories. This book, written by an international team of highly

qualified experts, concentrates on the modern and advanced methods.

Machine Learning Techniques for Adaptive Multimedia Retrieval: Technologies Applications and Perspectives - Wei, Chia-Hung 2010-10-31

"This book disseminates current information on multimedia retrieval, advancing the field of multimedia databases, and educating the multimedia database community on machine learning techniques for adaptive multimedia retrieval research, design and applications"-- Provided by publisher.

Circuits and Systems Based on Delta Modulation - Djuro G. Zrilic 2006-03-30

This book is intended for students and professionals who are interested in the field of digital signal processing of delta-sigma modulated sequences. The overall focus is on the development of algorithms and circuits for linear, non-linear, and mixed mode processing of delta-sigma modulated pulse streams. The material presented here is directly relevant to

applications in digital communication, DSP, instrumentation, and control.

Voice and Speech Quality Perception - Ute Jekosch 2006-01-17

Foundations of Voice and Speech Quality Perception starts out with the fundamental question of: "How do listeners perceive voice and speech quality and how can these processes be modeled?" Any quantitative answers require measurements. This is natural for physical quantities but harder to imagine for perceptual measurands. This book approaches the problem by actually identifying major perceptual dimensions of voice and speech quality perception, defining units wherever possible and offering paradigms to position these dimensions into a structural skeleton of perceptual speech and voice quality. The emphasis is placed on voice and speech quality assessment of systems in artificial scenarios. Many scientific fields are involved. This book bridges the gap between two quite diverse fields, engineering and humanities,

and establishes the new research area of Voice and Speech Quality Perception.

Wavelet Active Media Technology and Information Processing -

Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies - Yan, Li 2011-09-30

As consumer costs for multimedia devices such as digital cameras and Web phones have decreased and diversity in the market has skyrocketed, the amount of digital information has grown considerably. Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies details the latest information retrieval technologies and applications, the research surrounding the field, and the methodologies and design related to multimedia databases. Together with academic researchers and developers from both information retrieval and artificial intelligence

fields, this book details issues and semantics of data retrieval with contributions from around the globe. As the information and data from multimedia databases continues to expand, the research and documentation surrounding it should keep pace as best as possible, and this book provides an excellent resource for the latest developments.

The Foundations of Communication in Criminal Justice Systems - Daniel Adrian Doss 2014-10-17

Myriad forms of communication occur within the criminal justice system as judges and attorneys speak to juries, law enforcement officers interact with the public, and the news media presents stories of events in courtrooms. Hindrances abound, however. Law enforcement officers and justice system personnel often encounter challenges that affect their

Multimedia Storage and Retrieval Innovations for Digital Library Systems - Wei, Chia-Hung 2012-04-30

"This book offers the latest research on retrieval and storage methods for digital library systems, a burgeoning field of data sourcing"--Provided by publisher.

Multimedia Content Analysis - Ajay Divakaran
2009-03-02

Multimedia Content Analysis: Theory and Applications covers the latest in multimedia content analysis and applications based on such analysis. As research has progressed, it has become clear that this field has to appeal to other disciplines such as psycho-physics, media production, etc. This book consists of invited chapters that cover the entire range of the field. Some of the topics covered include low-level audio-visual analysis based retrieval and indexing techniques, the TRECVID effort, video browsing interfaces, content creation and content analysis, and multimedia analysis-based applications, among others. The chapters are written by leading researchers in the multimedia field.

Computing, Communication and Signal Processing - Brijesh Iyer 2018-09-12

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26-27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

Advances in Multimedia Information Processing - PCM 2006 - Yueting Zhuang
2006-10-24

This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia, PCM 2006, held in Hangzhou, China in November 2006. The 116 revised papers presented cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues.

Introduction to Modern Information Retrieval -
Gobinda G. Chowdhury 2010

An information retrieval (IR) system is designed to analyse, process and store sources of information and retrieve those that match a particular user's requirements. A bewildering range of techniques is now available to the information professional attempting to successfully retrieve information. It is recognized that today's information professionals need to concentrate their efforts on learning the techniques of computerized IR. However, it is this book's contention that it also benefits them to learn the theory, techniques

and tools that constitute the traditional approaches to the organization and processing of information. In fact much of this knowledge may still be applicable in the storage and retrieval of electronic information in digital library environments. The fully revised third edition of this highly regarded textbook has been thoroughly updated to incorporate major changes in this rapidly expanding field since the second edition in 2004, and a complete new chapter on citation indexing has been added. Unique in its scope, the book covers the whole spectrum of information storage and retrieval, including: users of IR and IR options; database technology; bibliographic formats; cataloguing and metadata; subject analysis and representation; automatic indexing and file organization; vocabulary control; abstracts and indexing; searching and retrieval; user-centred models of IR and user interfaces; evaluation of IR systems and evaluation experiments; online and CD-ROM IR; multimedia IR; hypertext and

mark-up languages; web IR; intelligent IR; natural language processing and its applications in IR; citation analysis and IR; IR in digital libraries; and trends in IR research. Illustrated with many examples and comprehensively referenced for an international audience, this is an indispensable textbook for students of library and information studies. It is also an invaluable aid for information practitioners wishing to brush up on their skills and keep up to date with the latest techniques.

Emerging Technologies in Intelligent Applications for Image and Video Processing - Santhi, V. 2016-01-07

Image and Video Processing is an active area of research due to its potential applications for solving real-world problems. Integrating computational intelligence to analyze and interpret information from image and video technologies is an essential step to processing and applying multimedia data. Emerging Technologies in Intelligent Applications for

Image and Video Processing presents the most current research relating to multimedia technologies including video and image restoration and enhancement as well as algorithms used for image and video compression, indexing and retrieval processes, and security concerns. Featuring insight from researchers from around the world, this publication is designed for use by engineers, IT specialists, researchers, and graduate level students.

Database Technologies: Concepts, Methodologies, Tools, and Applications - Erickson, John 2009-02-28

"This reference expands the field of database technologies through four-volumes of in-depth, advanced research articles from nearly 300 of the world's leading professionals"--Provided by publisher.

Multimedia Image and Video Processing - Ling Guan 2017-12-19

As multimedia applications have become part of

contemporary daily life, numerous paradigm-shifting technologies in multimedia processing have emerged over the last decade. Substantially updated with 21 new chapters, *Multimedia Image and Video Processing, Second Edition* explores the most recent advances in multimedia research and applications. This edition presents a comprehensive treatment of multimedia information mining, security, systems, coding, search, hardware, and communications as well as multimodal information fusion and interaction. Clearly divided into seven parts, the book begins with a section on standards, fundamental methods, design issues, and typical architectures. It then focuses on the coding of video and multimedia content before covering multimedia search, retrieval, and management. After examining multimedia security, the book describes multimedia communications and networking and explains the architecture design and implementation for multimedia image and video

processing. It concludes with a section on multimedia systems and applications. Written by some of the most prominent experts in the field, this updated edition provides readers with the latest research in multimedia processing and equips them with advanced techniques for the design of multimedia systems.

Three-Dimensional Television - H.M. Ozaktas
2007-11-13

This book is the condensed result of an extensive European project developing the future of 3D-Television. The book describes the state of the art in relevant topics: Capture of 3D scene for input to 3DTV system; Abstract representation of captured 3D scene information in digital form; Specifying data exchange format; Transmission of coded data; Conversion of 3DTV data for holographic and other displays; Equipment to decode and display 3DTV signal.

Biomedical Information Technology - David Dagan Feng
2019-10-22
Biomedical Information Technology, Second

Edition, contains practical, integrated clinical applications for disease detection, diagnosis, surgery, therapy and biomedical knowledge discovery, including the latest advances in the field, such as biomedical sensors, machine intelligence, artificial intelligence, deep learning in medical imaging, neural networks, natural language processing, large-scale histopathological image analysis, virtual, augmented and mixed reality, neural interfaces, and data analytics and behavioral informatics in modern medicine. The enormous growth in the field of biotechnology necessitates the utilization of information technology for the management, flow and organization of data. All biomedical professionals can benefit from a greater understanding of how data can be efficiently managed and utilized through data compression, modeling, processing, registration, visualization, communication and large-scale biological computing. Presents the world's most recognized authorities who give their "best

practices" Provides professionals with the most up-to-date and mission critical tools to evaluate the latest advances in the field Gives new staff the technological fundamentals and updates experienced professionals with the latest practical integrated clinical applications
Advances in Multimedia Information Processing - PCM 2007 - Horace H. S. Ip 2007-12-03
This book constitutes the refereed proceedings of the 8th Pacific Rim Conference on Multimedia, PCM 2007, held in Hong Kong, China, in December 2007. The 73 revised full papers and 21 revised posters presented were carefully reviewed and selected from 247 submissions. The papers are organized in topical sections on image classification and retrieval, the AVS china national standard - technology, applications and products, human face and action recognition, and many more topics.
Database Modeling for Industrial Data Management: Emerging Technologies and Applications - Ma, Zongmin 2005-12-31

"This book covers industrial databases and applications and offers generic database modeling techniques"--Provided by publisher.

Adaptive Multimedia Retrieval - Germany)

International workshop Adaptive Multimedia Retrieval (1st : 2003 : Hamburg 2004-06-16

This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Adaptive Multimedia Retrieval, AMR 2003, held in Hamburg, Germany in September 2003. The 12 revised full papers presented were carefully selected during two rounds of reviewing and improvement. Also included are three invited papers by leading researchers in the area to provide introductory and background information and to complete coverage of the relevant aspects. The papers are organized in topical sections on retrieval systems, texts and ontologies, feature extraction from video, image retrieval, and sound.

Encyclopedia of Multimedia Technology and Networking, Second Edition - Pagani,

Margherita 2008-08-31

Advances in hardware, software, and audiovisual rendering technologies of recent years have unleashed a wealth of new capabilities and possibilities for multimedia applications, creating a need for a comprehensive, up-to-date reference. The Encyclopedia of Multimedia Technology and Networking provides hundreds of contributions from over 200 distinguished international experts, covering the most important issues, concepts, trends, and technologies in multimedia technology. This must-have reference contains over 1,300 terms, definitions, and concepts, providing the deepest level of understanding of the field of multimedia technology and networking for academicians, researchers, and professionals worldwide.

Artificial Intelligence for Maximizing Content Based Image Retrieval - Ma, Zongmin

2009-01-31

Discusses major aspects of content-based image retrieval (CBIR) using current technologies and

applications within the artificial intelligence (AI) field.

Multimedia Database Retrieval: - Paisarn Muneesawang 2006-12-15

-Presents state-of-the-art in visual media retrieval. -Coverage of adaptive content-based retrieval systems and techniques in image and video database applications. -Includes a novel machine-controlled interactive retrieval (MCIR) method that optimizes image search in distributed digital libraries over the Internet.

Soft Computing Applications for Database Technologies - K. Anbumani 2010-01-01

"This book investigates the advent of soft computing and its applications in database technologies"--Provided by publisher.

New Directions in Intelligent Interactive Multimedia - George A Tsihrintzis 2008-06-18

This book summarizes the works and new research results presented at the First International Symposium on Intelligent Interactive Multimedia Systems and Services

(KES-IIMSS 2008), organized by the University of Piraeus and its Department of Informatics in conjunction with KES International (Piraeus, Greece, July 9-11, 2008). The aim of the symposium was to provide an internationally respected forum for scientific research into the technologies and applications of intelligent interactive multimedia systems and services. Besides the Preface, the book contains sixty four (64) chapters. The first four (4) chapters in the book are printed versions of the keynote addresses of the invited speakers of KES-IIMSS 2008. Besides the invited speaker chapters, the book contains fifteen (15) chapters on recent Advances in Multimedia Data Analysis, eleven (11) chapters on Reasoning Approaches, nine (9) chapters on Infrastructure of Intelligent Interactive Multimedia Systems and Services, fourteen (14) chapters on Multimedia Applications, and eleven (11) chapters on Quality of Interactive Multimedia Services.

Information Engineering and Applications -

Rongbo Zhu 2011-11-13

In past twenty years or so, information technology has influenced and changed every aspect of our lives and our cultures. Without various IT-based applications, we would find it difficult to keep information stored securely, to process information and business efficiently, and to communicate information conveniently. In the future world, ITs and information engineering will play a very important role in convergence of computing, communication, business and all other computational sciences and application and it also will influence the future world's various areas, including science, engineering, industry, business, law, politics, culture and medicine. The International Conference on Information Engineering and Applications (IEA) 2011 is intended to foster the dissemination of state-of-the-art research in information and business areas, including their models, services, and novel applications associated with their utilization. International Conference on

Information Engineering and Applications (IEA) 2011 is organized by Chongqing Normal University, Chongqing University, Shanghai Jiao Tong University, Nanyang Technological University, University of Michigan and the Chongqing University of Arts and Sciences, and is sponsored by National Natural Science Foundation of China (NSFC). The objective of IEA 2011 is to will provide a forum for engineers and scientists in academia, industry, and government to address the most innovative research and development . Information Engineering and Applications provides a summary of this conference including contributions for key speakers on subjects such as technical challenges, social and economic issues, and ideas, results and current work on all aspects of advanced information and business intelligence.

Intelligent Multimedia Data Hiding - Hsiang-Cheh Huang 2007-04-25

This book lays out all the latest research in the

area of multimedia data hiding. The book introduces multimedia signal processing and information hiding techniques. It includes multimedia representation, digital watermarking fundamentals and requirements of watermarking. It moves on to cover the recent advances in multimedia signal processing, before presenting information hiding techniques including steganography, secret sharing and watermarking. The final part of this book includes practical applications of intelligent multimedia signal processing and data hiding systems.

Foundations of Intelligent Systems - Floriana Esposito 2006-09-22

This book constitutes the refereed proceedings of the 16th International Symposium on Methodologies for Intelligent Systems, ISMIS 2006. The book presents 81 revised papers together with 3 invited papers. Topical sections include active media human-computer interaction, computational intelligence,

intelligent agent technology, intelligent information retrieval, intelligent information systems, knowledge representation and integration, knowledge discovery and data mining, logic for AI and logic programming, machine learning, text mining, and Web intelligence.

Encyclopedia of Multimedia Technology and Networking - Pagani, Margherita 2005-05-30

"This encyclopedia offers a comprehensive knowledge of multimedia information technology from an economic and technological perspective"--Provided by publisher.

Multimedia Information Retrieval and Management - David Feng 2003-01-21

Everything you ever wanted to know about multimedia retrieval and management. This comprehensive book offers a full picture of the cutting-edge technologies necessary for a profound introduction to the field. Leading experts also cover a broad range of practical applications.

Foundations and Applications of Sensor Management - Alfred Olivier Hero 2007-10-23

This book covers control theory signal processing and relevant applications in a unified manner. It introduces the area, takes stock of advances, and describes open problems and challenges in order to advance the field. The editors and contributors to this book are pioneers in the area of active sensing and sensor management, and represent the diverse communities that are targeted.

Advances in Visual Information Systems - Guoping Qiu 2007-11-18

This book constitutes the thoroughly refereed post-proceedings of the 9th International Conference on Visual Information Systems, VISUAL 2007, held in Shanghai, China, in June 2007. The papers are organized in topical section on image and video retrieval, visual biometrics, intelligent visual information processing, visual data mining, ubiquitous and mobile visual information systems, semantics,

2D/3D graphical visual data retrieval, and applications of visual information systems.

Multimedia Information Retrieval and Management - David Feng 2013-04-17

Everything you ever wanted to know about multimedia retrieval and management. This comprehensive book offers a full picture of the cutting-edge technologies necessary for a profound introduction to the field. Leading experts also cover a broad range of practical applications.

EM Modeling of Antennas and RF Components for Wireless Communication Systems - Frank Gustrau 2006-08-02

This book focuses on practical computational electrodynamics, guiding the reader step-by-step through the modeling process from the initial "what question must the model answer?", through the setting up of a computer model, to post processing, validation and optimization. The book offers a realistic view of the capabilities and limits of current 3-D field simulators and

how to apply this knowledge efficiently to EM analysis and design of RF applications in modern communication systems.

Emerging Technologies in Data Mining and Information Security - Paramartha Dutta

2022-09-28

This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2022) held at Institute of

Engineering & Management, Kolkata, India, during February 23–25, 2022. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers and case studies related to all the areas of data mining, machine learning, Internet of Things (IoT) and information security.