

Index Multimedia

Yannis Manolopoulos,Alexandros Nanopoulos,Eleni Tousidou

Indexing Multimedia and Creative Works Pauline Rafferty, Rob Hilderley, 2017-03-02 Indexing and information retrieval work properly only if language and interpretation are shared by creator and user. This is more complex for non-verbal media. The authors of *Indexing Multimedia and Creative Works* explore these challenges against a background of different theories of language and communication, particularly semiotics, questioning the possibility of ideal multimedia indexing. After surveying traditional approaches to information retrieval (IR) and organization in relation to issues of meaning, particularly Panofsky's 'levels of meaning', Pauline Rafferty and Rob Hilderley weigh up the effectiveness of major IR tools (cataloguing, classification and indexing) and computerised IR, highlighting key questions raised by state-of-the-art computer language processing systems. Introducing the reader to the fundamentals of semiotics, through the thinking of Saussure, Peirce and Sonesson, they make the case for this as the basis for successful multimedia information retrieval. The authors then describe specific multimedia information retrieval tools: namely the Art and Architecture Thesaurus, Iconclass and the Library of Congress Thesaurus of General Materials I and II. A selection of multimedia objects including photographic images, abstract images, music, the spoken word and film are read using analytical and descriptive categories derived from the literature of semiotics. Multimedia information retrieval tools are also used to index the multimedia objects, an exercise which demonstrates the richness of the semiotic approach and the limitations of controlled vocabulary systems. In the final chapter the authors reflect on the issues thrown up by this comparison and explore alternatives such as democratic, user-generated indexing as an alternative. Primarily intended for third-year undergraduate and postgraduate information studies students, the breadth and depth of *Indexing Multimedia and Creative Works* will also make it relevant and fascinating reading.

Multimedia Software Engineering Shi-Kuo Chang, 2012-12-06 Multimedia has two fundamental characteristics that can be expressed by the following formula: $\text{Multimedia} = \text{Multiple Media} + \text{Hypermedia}$. How can software engineering take advantage of these two characteristics? Will these two characteristics pose problems in multimedia systems design? These are some of the issues to be explored in this book. The first two chapters will be of interest to managers, software engineers, programmers, and people interested in gaining an overall understanding of multimedia software engineering. The next six chapters present multimedia software engineering according to the conceptual framework introduced in Chapter One. This is of particular use to practitioners, system developers, multimedia application designers, programmers, and people interested in prototyping multimedia applications. The next three chapters are more research-oriented and are mainly intended for researchers working on the specification, modeling, and analysis of distributed multimedia systems, but will also be relevant to scientists, researchers, and software engineers interested in the systems and theoretical aspects of multimedia software engineering. *Multimedia Software Engineering* can be used as a textbook in a graduate course on multimedia software engineering or in an undergraduate course on software design where the emphasis is on multimedia applications. It is especially suitable for a project-oriented course.

Distributed Multimedia Database Technologies Supported by MPEG-7 and MPEG-21 Harald Kosch, 2003-11-24 A multimedia system needs a mechanism to communicate with its environment, the Internet, clients, and applications. MPEG-7 provides a standard metadata format for global communication, but lacks the framework to let the various players in a system interact. MPEG-21 closes this gap by establishing an infrastructure for a distributed multimedia frame

Managing Multimedia Semantics Uma Srinivasan, Surya Nepal, 2005-01-01 This book is aimed at researchers and practitioners involved in designing and managing complex multimedia information systems--Provided by publisher.

Advances in Multimedia Information Processing – PCM 2001 Heung-Yeung Shum, Hong-Yuan Mark Liao, Shih-Fu Chang, 2003-06-30 Welcome to the second IEEE Pacific Rim Conference on Multimedia (IEEE PCM 2001) held in Zhongguanchun, Beijing, China, October 22-24, 2001. Building upon the success of the inaugural IEEE PCM 2000 in Sydney in December 2000, the second PCM again brought together the researchers, developers, practitioners, and educators of multimedia in the Pacific area. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the sponsorship by the IEEE Circuit and Systems Society, IEEE Signal Processing Society, China Computer Foundation, China Society of Image and Graphics, National Natural Science Foundation of China, Tsinghua University, and Microsoft Research, China. IEEE PCM 2001 featured a comprehensive program including keynote talks, regular paper presentations, posters, demos, and special sessions. We received 244 papers and accepted only 104 of them as regular papers, and 53 as poster papers. Our special session chairs, Shin'ichi Satoh and Mohan Kankanhalli, organized 6 special sessions. We acknowledge the great contribution from our program committee members and paper reviewers who spent many hours reviewing submitted papers and providing valuable comments for the authors. The conference would not have been successful without the help of so many people. We greatly appreciated the support of our honorary chairs: Prof. Sun Yuan Kung of Princeton University, Dr. Ya Qin Zhang of Microsoft Research China, and Prof.

Advanced Signature Indexing for Multimedia and Web Applications Yannis Manolopoulos, Alexandros Nanopoulos, Eleni Tousidou, 2012-09-08 Advanced Signature Indexing for Multimedia and Web Applications presents the latest research developments in signature-based indexing and query processing, specifically in multimedia and Web domains. These domains now demand a different designation of hashing information in bit-strings (i.e., signatures), and new indexes and query processing methods. The book provides solutions to these issues and addresses the resulting requirements, which are not adequately handled by existing approaches. Examples of these applications include: searching for similar images, representing multi-theme layers in maps, recommending products to Web-clients, and indexing large Web-log files. Special emphasis is given to structure description, implementation techniques and clear evaluation of operations performed (from a performance perspective). Advanced Signature Indexing for Multimedia and Web Applications is an excellent reference for professionals involved in the development of applications in multimedia databases or the Web and may also serve as a textbook for advanced level courses in database and information retrieval systems.

Multimedia Services in Intelligent Environments George A Tsihrintzis, Maria Virvou, 2010-09-07 KES International (KES) is a worldwide organisation that provides a professional community and association for researchers, originally in the discipline of Knowledge Based and Intelligent Engineering Systems, but now extending into other related areas. Through this, KES provides its members with opportunities for publication and beneficial interaction. The focus of KES is research and technology transfer in the area of Intelligent Systems, i.e. computer-based software systems that operate in a manner analogous to the human brain, in order to perform advanced tasks. Recently KES has started to extend its area of interest to encompass the contribution that intelligent systems can make to sustainability and renewable energy, and also the knowledge transfer, innovation and enterprise agenda. Involving several thousand researchers, managers and engineers drawn from universities and companies world-wide, KES is in an excellent position to facilitate international research co-operation and generate synergy in the area of artificial intelligence applied to real-world 'Smart' systems and the underlying related theory. The KES annual conference covers a broad spectrum of intelligent systems topics and attracts several hundred delegates from a range of countries round the world. KES also organises symposia on specific technical topics, for example, Agent and Multi Agent Systems, Intelligent Decision Technologies, Intelligent Interactive Multimedia Systems and Services, Sustainability in Energy and Buildings and Innovations through Knowledge Transfer. KES is responsible for two peer-reviewed journals, the International Journal of Knowledge Based and Intelligent Engineering Systems, and Intelligent Decision Technologies: an International Journal.

Semantic Models for Multimedia Database Searching and Browsing Shu-Ching Chen, R.L. Kashyap, Arif Ghafoor, 2006-04-11 Semantic Models for Multimedia Database Searching and Browsing begins with the introduction of multimedia information applications, the need for the development of the multimedia database management systems (MDBMSs), and the important issues and challenges of multimedia systems. The temporal relations, the spatial relations, the spatio-temporal relations, and several semantic models for multimedia information systems are also introduced. In addition, this book discusses recent advances in multimedia database searching and multimedia database browsing. More specifically, issues such as image/video segmentation, motion detection, object tracking, object recognition, knowledge-based event modeling, content-based retrieval, and key frame selections are presented for the first time in a single book. Two case studies consisting of two semantic models are included in the book to illustrate how to use semantic models to design multimedia information systems. Semantic Models for Multimedia Database Searching and Browsing is an excellent reference and can be used in advanced level courses for researchers, scientists, industry professionals, software engineers, students, and general readers who are interested in the issues, challenges, and ideas underlying the current practice of multimedia presentation, multimedia database searching, and multimedia browsing in multimedia information systems.

Multimedia Semantics Raphael Troncy, Benoit Huet, Simon Schenk, 2011-07-18 In this book, the authors present the latest research results in the multimedia and semantic web communities, bridging the Semantic Gap This book explains, collects and reports on the latest research results that aim at narrowing the so-called multimedia

Semantic Gap: the large disparity between descriptions of multimedia content that can be computed automatically, and the richness and subjectivity of semantics in user queries and human interpretations of audiovisual media. Addressing the grand challenge posed by the Semantic Gap requires a multi-disciplinary approach (computer science, computer vision and signal processing, cognitive science, web science, etc.) and this is reflected in recent research in this area. In addition, the book targets an interdisciplinary community, and in particular the Multimedia and the Semantic Web communities. Finally, the authors provide both the fundamental knowledge and the latest state-of-the-art results from both communities with the goal of making the knowledge of one community available to the other. Key Features: Presents state-of-the art research results in multimedia semantics: multimedia analysis, metadata standards and multimedia knowledge representation, semantic interaction with multimedia Contains real industrial problems exemplified by user case scenarios Offers an insight into various standardisation bodies including W3C, IPTC and ISO MPEG Contains contributions from academic and industrial communities from Europe, USA and Asia Includes an accompanying website containing user cases, datasets, and software mentioned in the book, as well as links to the K-Space NoE and the SMaRT society web sites (<http://www.multimediasemantics.com/>) This book will be a valuable reference for academic and industry researchers/practitioners in multimedia, computational intelligence and computer science fields. Graduate students, project leaders, and consultants will also find this book of interest.

Multimedia Database Management Systems B. Thuraisingham, Kingsley C. Nwosu, P. Bruce Berra, 2012-12-06 Multimedia Database Management Systems brings together in one place important contributions and up-to-date research results in this important area. Multimedia Database Management Systems serves as an excellent reference, providing insight into some of the most important research issues in the field.

Advances in Multimedia Modeling Tat-Jen Cham, Jianfei Cai, Chitra Dorai, Deepu Rajan, Tat-Seng Chua, Liang-Tien Chia, 2007-07-07 The two volume set LNCS 4351 and LNCS 4352 constitutes the refereed proceedings of the 13th International Multimedia Modeling Conference, MMM 2007, held in Singapore in January 2007. Based on rigorous reviewing, the program committee selected 123 carefully revised full papers of the main technical sessions and 33 revised full papers of four special sessions from a total of 392 submissions for presentation in two volumes.

Interactive Distributed Multimedia Systems and Services Berthold Butscher, Eckhard Moeller, Herwart Pusch, 1996-02-26 This book constitutes the refereed proceedings of the first European Workshop on Interactive Distributed Multimedia Systems and Services, IDMS'96, held in Berlin, Germany in March 1996. The 21 revised papers included were carefully selected for presentation at the workshop; they examine current and new approaches to interactive distributed multimedia systems and services from different points of view, including research and development, management, and users. Among the topics addressed are application development support, multimedia services on demand, multimedia conferencing, multimedia networking, continuous-media streams, multimedia experiments.

The Multimedia Internet Stephen Weinstein, 2007-02-15 Here is a thorough, not-overly-complex introduction to the

three technical foundations for multimedia applications across the Internet: communications (principles, technologies and networking); compressive encoding of digital media; and Internet protocol and services. All the contributing systems elements are explained through descriptive text and numerous illustrative figures; the result is a book well-suited toward non-specialists, preferably with technical background, who need well-composed tutorial introductions to the three foundation areas. The text discusses the latest advances in digital audio and video encoding, optical and wireless communications technologies, high-speed access networks, and IP-based media streaming, all crucial enablers of the multimedia Internet.

Fundamentals of Multimedia Ze-Nian Li, Mark S. Drew, Jiangchuan Liu, 2021-03-20 PREVIOUS EDITION This textbook introduces the “Fundamentals of Multimedia”, addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.

Multimedia Transcoding in Mobile and Wireless Networks Ahmad, Ashraf M.A., Khalil, Ismail, 2008-07-31 This book is designed to provide readers with relevant theoretical frameworks and latest technical and institutional solutions for transcoding multimedia in mobile and wireless networks--Provided by publisher.

Media Inc.'s Northwest Film, Video Multimedia and Audio Production Index Media Index Publishing Inc, 1996-07-01

Advances in Intelligent Information Hiding and Multimedia Signal Processing Kazuhiro Kondo, Mong-Fong Horng, Jeng-Shyang Pan, Pei Hu, 2023-05-23 The book presents selected papers from the 18th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, held on December 16–18, 2022, in Kitakyushu, Japan. It is divided into two volumes and discusses latest research outcomes in the field of Information Technology (IT) including but not limited to information hiding, multimedia signal processing, big data, data mining, bioinformatics, database, industrial and internet of things, and their applications.

Advanced Multimedia Content Processing Shojiro Nishio, Fumio Kishino, 2003-05-21 This volume is the Proceedings of the First International Conference on Advanced Multimedia Content Processing (AMCP '98). With the remarkable advances made in computer and communication hardware/software system technologies, we can now easily obtain large volumes of multimedia data through advanced computer networks and store and handle them in our own personal hardware. Sophisticated and integrated multimedia content processing technologies, which are essential to building a highly advanced information based society, are attracting ever increasing attention in various service areas, including broadcasting, publishing, medical treatment, entertainment, and communications. The prime concerns of

these technologies are how to acquire multimedia content data from the real world, how to automatically organize and store these obtained data in databases for sharing and reuse, and how to generate and create new, attractive multimedia content using the stored data. This conference brings together researchers and practitioners from academia, in dustry, and public agencies to present and discuss recent advances in the acquisition, management, retrieval, creation, and utilization of large amounts of multimedia con tent. Artistic and innovative applications through the active use of multimedia con tent are also subjects of interest. The conference aims at covering the following par ticular areas: (1) Dynamic multimedia data modeling and intelligent structuring of content based on active, bottom up, and self organized strategies. (2) Access archi tecture, querying facilities, and distribution mechanisms for multimedia content.

Readings in Multimedia Computing and Networking Kevin Jeffay,Hong Jiang Zhang,2001-08-10 Readings in Multimedia Computing and Networking captures the broad areas of research and developments in this burgeoning field, distills the key findings, and makes them accessible to professionals, researchers, and students alike. For the first time, the most influential and innovative papers on these topics are presented in a cohesive form, giving shape to the diverse area of multimedia computing. The seminal moments are recorded by a dozen visionaries in the field and each contributing editor provides a context for their area of research by way of a thoughtful, focused chapter introduction. The volume editors, Kevin Jeffay and HongJiang Zhang, offer further incisive interpretations of past and present developments in this area, including those within media and content processing, operating systems, and networking support for multimedia. This book will provide you with a sound understanding of the theoretical and practical issues at work in the field's continuing evolution. * Offers an in-depth look at the technical challenges in multimedia and provides real and potential solutions that promise to expand the role of multimedia in business, entertainment, and education. * Examines in Part One issues at the heart of multimedia processes: the means by which multimedia data are coded, compressed, indexed, retrieved, and otherwise manipulated. * Examines in Part Two the accommodation of these processes by storage systems, operating systems, network protocols, and applications. * Written by leading researchers, the introductions give shape to a field that is continually defining itself and place the key research findings in context to those who need to understand the state-of-the art developments.

Proceedings of the 2023 2nd International Conference on Educational Innovation and Multimedia Technology (EIMT 2023) Chew Fong Peng,Adelina Asmawi,Chuanjun Zhao,2023-07-04 This is an open access book. As a leading role in the global megatrend of scientific innovation, China has been creating a more and more open environment for scientific innovation, increasing the depth and breadth of academic cooperation, and building a community of innovation that benefits all. Such endeavors are making new contributions to the globalization and creating a community of shared future. To adapt to this changing world and China's fast development in the new era, 2023 2nd International Conference on Educational Innovation and Multimedia Technology to be held in March 2023. This conference takes bringing together global wisdom in scientific innovation to promote high-quality development as the theme and

focuses on cutting-edge research fields including Educational Innovation and Multimedia Technology. EIMT 2023 encourages the exchange of information at the forefront of research in different fields, connects the most advanced academic resources in China and the world, transforms research results into industrial solutions, and brings together talent, technology and capital to drive development. The conference sincerely invites experts, scholars, business people and other relevant personnel from universities, scientific research institutions at home and abroad to attend and exchange!

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