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Digital Interactive TV and Metadata

Future Broadcast Multimedia



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Digital Interactive Tv And Metadata Future Broadcast Multimedia Signals And Communication Technology

Paisarn Muneesawang,Ling Guan



Digital Interactive Tv And Metadata Future Broadcast Multimedia Signals And Communication Technology:

Digital Interactive TV and Metadata Arthur Lugmayr, Samuli Niiranen, Seppo Kalli, 2004-06-22 The book shows how digital interactive television digiTV will affect the relation between the broadcaster and the consumer Standardization processes technological paradigms and application development issues will be discussed The emerging applications innovations and future concepts are described in detail The triangle content end user technology will be conceptualized to create a vision and to overview provision of services that will be major innovative elements in the world of digital television From the technical side eXtensible Markup Language XML based metadata standards are a major element in realizing new innovative concepts in the world of digital interactive television This book clearly shows by the introduction of applications and use scenarios which conceptual requirements and metadata models are applicable which metadata subsets are applicable due to resource limitations which metadata aspects are needed for nonlinear content viewing etc The book gives a broad and detailed both visionary and technical overview useful for graduates engineers and scientists and last but not least decision makers in the broadcasting industry

Digital Interactive TV and Metadata Arthur Lugmayr, Samuli Niiranen, Seppo Kalli, 2013-03-09 Recent years have brought many changes to the world of mass media The Internet and mobile communications technology have provided consumers with interactive digital services Television is catching up with this trend through the digitalization process Digital television is a hybrid platform combining elements from classical analog television and the Internet providing modern multimedia services on a familiar platform In short digital TV is a gateway to the world of interactive digital media Digital TV brings consumers into the television service arena and offers them new degrees of freedom However as the service and multimedia content types diversify and the services and their content increase television is facing many of the same challenges of complexity and information overflow faced by other digital media Metadata can handle the diverse services and content of digital TV efficiently and in a consumer friendly way Metadata means that the data are accompanied by other data which describe them As data about data meta data can provide an insight into syntactically and semantically complex data by distilling their essence to a set of simple descriptors Metadata also helps to structure and manage information in diverse settings The use of metadata in broadcast multimedia should not be restricted to being merely a tool for coping with the challenges of a complex networked multimedia environment Instead metadata offers new opportunities for the development of innovative services

TV Content Analysis Yiannis Kompatsiaris, Bernard Merialdo, Shiguo Lian, 2012-03-19 The rapid advancement of digital multimedia technologies has not only revolutionized the production and distribution of audiovisual content but also created the need to efficiently analyze TV programs to enable applications for content managers and consumers Leaving no stone unturned TV Content Analysis Techniques and Applications provides a detailed exploration of TV program analysis techniques Leading researchers and academics from around the world supply scientifically sound treatment of recent developments across the related subject areas including systems architectures

algorithms applications research results emerging approaches and open issues The book is organized into six parts Content Extraction deals with automatic analysis and annotation of TV content addressing generic semantics and concepts as well as TV content Content Structuring examines techniques for identifying interesting parts of TV programs and supplying direct access to it Content Recommendation explores the problem of providing users with the most relevant content addressing the problem of an ever increasing amount of available content Content Quality considers visual perception and quality approaches in the multi display TV context and the specific mobile TV scenario Web and Social TV presents studies on Web and TV convergence and on how user generated content in Web 2 0 applications can be used to enhance services Content Production covers postproduction visual effects and presentation standards Most parts start with a chapter that provides an overview of that area followed by state of the art approaches focusing on specific issues covered in that section Reporting on recent advances in the field the book provides you with the global view and up to date understanding of emerging trends needed to participate in the development of the digital TV domain

Three-Dimensional Television H.M. Ozaktas,Levent Onural,2007-11-13 Advances in optical technology and computing power are bringing life like 3DTV closer with potential applications not only in entertainment but also in education scientific research industry medicine and many other areas 3DTV will require the integration of a diversity of key technologies from computing to graphics imaging to display and signal processing to communications The scope of this book reflects this diversity different chapters deal with different stages of an end to end 3DTV system such as capture representation coding transmission and display Both autostereoscopic techniques which eliminate the need for special glasses and allow viewer movement and holographic approaches which have the potential to provide the truest three dimensional images are covered Some chapters discuss current research trends in 3DTV technology while others address underlying topics This book is essential to those with an interest in 3DTV related research or applications and also of interest to those who while not directly working on 3DTV work in areas which developments in 3DTV may touch such as multimedia computer games virtual reality medical imaging and scientific simulation

Multimedia Database Retrieval: Paisarn Muneesawang,Ling Guan,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

Satellite Communications and Navigation Systems Enrico Re,Marina Ruggieri,2007-12-19 Satellite Communications and Navigation Systems publishes the proceedings of the 2006 Tyrrhenian International Workshop on Digital Communications The book focuses on the integration of communication and navigation systems in satellites

Electronic Noise and Interfering Signals Gabriel Vasilescu,2006-01-17 Electronic Noise and Interfering Signals is a comprehensive reference book on noise and interference in electronic circuits with particular focus on low noise design The first part of the book deals with mechanisms modelling and computation of intrinsic noise which is generated in every

electronic device The second part analyzes the coupling mechanisms which can lead to a contamination of circuits by parasitic signals and provides appropriate solutions to this problem The last part contains more than 100 practical elaborate case studies The book requires no advanced mathematical training as it introduces the fundamental methods Moreover it provides insight into computational noise analysis with SPICE and NOF a software developed by the author The book addresses designers of electronic circuits as well as researchers from electrical engineering physics and material science It should also be of interest for undergraduate and graduate students

Interactive Video Riad Hammoud,2007-01-21 This book is a groundbreaking resource that covers both algorithms and technologies of interactive videos It presents recent research and application work for building and browsing interactive digital videos The book deals mainly with low level semi automatic and full automatic processing of the video content for intelligent human computer interaction There is a special focus on eye tracking methods

Human Factors and Voice Interactive Systems Daryle Gardner-Bonneau,Harry E. Blanchard,2007-12-03 Human Factors and Voice Interactive Systems Second Edition provides in depth information on current topics of major interest to speech application developers and updates material from chapters that appeared in the previous edition The first nine chapters of the book cover issues related to interactive voice response systems including both mobile and multimodal device user interfaces as well as classic automated telephone systems The remaining chapters cover special topics including synthetic speech and the design of speech applications to enhance accessibility to people with disabilities and the ever growing population of older adults Human Factors and Voice Interactive Systems Second Edition is a collection of applied research and scholarly synthesis contributions by seasoned professionals in the field that highlight continuing efforts to study human interaction with speech technologies

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

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