

Signals
and
Communication
Technology

Artur Lugmayr
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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

**Jacob Benesty, Shoji Makino, Jingdong
Chen**



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 Meriardo, 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

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

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

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

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 **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 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 *EM Modeling of Antennas and RF Components for Wireless Communication Systems* Frank Gustrau, Dirk Manteuffel, 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 Voice and Speech Quality Perception Ute Jekosch, 2005-12-16 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 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 **Algorithmic Information**

Theory Peter Seibt, 2007-02-15 Shall we be destined to the days of eternity on holy days as well as working days to be shewing the RELICKS OF LEARNING as monks do the relicks of their saints without working one one single miracle with them Laurence Sterne Tristram Shandy This book deals with information processing so it is far from being a book on information theory which would be built on description and estimation The reader will be shown the horse but not the saddle At any rate at the very beginning there was a series of lectures on Information theory through the looking glass of an algebraist and as years went on a steady process of teaching and learning made the material evolve into the present form There still remains an algebraic main theme algorithms intertwining polynomial algebra and matrix algebra in the shelter of signal theory A solid knowledge of elementary arithmetic and Linear Algebra will be the key to a thorough understanding of all the algorithms working in the various bit stream landscapes we shall encounter This priority of algebra will be the thesis that we shall defend More concretely We shall treat in ve chapters of increasing di culty ve sensibly di erent subjects in Discrete Mathem ics The rsttwo chapters on data compaction lossless data compression and cryptography are on an undergraduate level the most di cult mathematical prerequisite will be a sound understanding of quotient rings especially of nite elds mostly in characteristic 2 **Foundations and Applications of Sensor Management** Alfred Olivier Hero, David Castañón, Doug Cochran, Keith Kastella, 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 *Cryptographic Algorithms on Reconfigurable Hardware* Francisco Rodriguez-Henriquez, N.A. Saqib, Arturo Díaz Pérez, Cetin Kaya Koc, 2007-04-03 Software based

cryptography can be used for security applications where data traffic is not too large and low encryption rate is tolerable But hardware methods are more suitable where speed and real time encryption are needed Until now there has been no book explaining how cryptographic algorithms can be implemented on reconfigurable hardware devices This book covers computational methods computer arithmetic algorithms and design improvement techniques needed to implement efficient

cryptographic algorithms in FPGA reconfigurable hardware platforms The author emphasizes the practical aspects of reconfigurable hardware design explaining the basic mathematics involved and giving a comprehensive description of state of the art implementation techniques

Speech Enhancement Shoji Makino, Jingdong Chen, 2005 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However the general emphasis is on noise reduction because of the large number of applications that can benefit from this technology The goal of this book is to provide a strong reference for researchers engineers and graduate students who are interested in the problem of signal and speech enhancement To do so we invited well known experts to contribute chapters covering the state of the art in this focused field

TOC Introduction Study of the Wiener Filter for Noise Reduction Statistical Methods for the Enhancement of Noisy Speech Single und Multi Microphone Spectral Amplitude Estimation Using a Super Gaussian Speech Model From Volatility Modeling of Financial Time Series to Stochastic Modeling and Enhancement of Speech Signals Single Microphone Noise Suppression for 3G Handsets Based on Weighted Noise Estimation Signal Subspace Techniques for Speech Enhancement Speech Enhancement Application of the Kalman Filter in the Estimate Maximize EM Framework Speech Distortion Weighted Multichannel Wiener Filtering Techniques for Noise Reduction Adaptive Microphone Arrays Employing Spatial Quadratic Soft Constraints and Spectral Shaping Single Microphone Blind Dereverberation Separation and Dereverberation of Speech Signals with Multiple Microphones Frequency Domain Blind Source Separation Subband Based Blind Source Separation Real Time Blind Source Separation for Moving Speech Signals Separation of Speech by Computational Auditory Scene Analysis

Grid Enabled Remote Instrumentation Franco Davoli, Norbert Meyer, Roberto Pugliese, Sandro Zappatore, 2008-10-10 Grid architectures which are viewed as tools for the integration of distributed resources play a significant role as managers of computational resources but also as aggregators of measurement instrumentation and pervasive large scale data acquisition platforms The functionality of a grid architecture allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common work environments to their users This result is achieved through the properties of isolation from the physical network and from the peculiarities of the instrumentation granted by standard middleware together with secure and flexible mechanisms which seek access and aggregate distributed resources This book focuses on a number of aspects related to the effective exploitation of remote instrumentation on the grid These include middleware architecture high speed networking in support

of grid applications wireless grid for acquisition devices and sensor networks quality of service provisioning for real time control and measurement instrumentation **The Variational Bayes Method in Signal Processing** Václav Šmídl,Anthony Quinn,2006-03-30 Treating VB approximation in signal processing this monograph is for academic and industrial research groups in signal processing data analysis machine learning and identification It reviews distributional approximation showing that tractable algorithms for parametric model identification can be generated in off line and on line contexts **Speech Enhancement** Jacob Benesty,Shoji Makino,Jingdong Chen,2006-03-30 A strong reference on the problem of signal and speech enhancement describing the newest developments in this exciting field The general emphasis is on noise reduction because of the large number of applications that can benefit from this technology *Broadband Fixed Wireless Access* Marc Engels,Frederik Petre,2006-12-06 This introductory volume provides a systematic overview of WiMAX technology demystifying the technology and providing technical advice on various system trade offs Much of the material is based on the practical experiences of the authors in building new systems Coverage includes the IEEE 802 16 standard a tutorial on implementation and tips on controlling cost of WiMAX network ownership This is a must read book for professionals involved in broadband fixed wireless access

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