
Digital Interactive Tv And Metadata Future Broadcast Multimedia Signals And Communication Technology By Arthur Lugmayr 2004 06 22

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 Algorithmic Information Theory
 A Cross-Layer Design Perspective
 Multimedia Database Retrieval:
 Theory and Applications
 The Variational Bayes Method in Signal Processing
 4th Iberoamerican Conference, JAUTI 2015, and 6th Congress on Interactive Digital TV, CTVDI 2015, Palma de Mallorca, Spain, October
 15-16, 2015. Revised Selected Papers
 Acoustic MIMO Signal Processing
 Multimedia Content Analysis
 Voice and Speech Quality Perception
 EM Modeling of Antennas and RF Components for Wireless Communication Systems
 Cross-border Cultural Production
 Cryptographic Algorithms on Reconfigurable Hardware
 An End-to-End Introduction
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 Grid Enabled Remote Instrumentation
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 Descriptive Metadata for Television
 BUSINESS AND NON-PROFIT ORGANIZATION FACING INCREASED COMPETITION AND GROWING CUSTOMERS' DEMANDS (Vol. 11)
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Digital Interactive TV and MetadataFuture Broadcast
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[Journalism, Broadcasting, and Social Media Aspects of
 Convergence](#) Taylor & Francis

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.

Topics in Acoustic Echo and Noise Control Springer Science & Business Media

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.

Adaptive Nonlinear System Identification Springer

The second edition of *Human Factors and Voice Interactive Systems*, in addition to updating chapters from the first edition, adds in-depth information on current topics of major interest to speech application developers. These topics include use of speech technologies in automobiles, speech in mobile phones, natural language dialogue issues in speech application design, and the human factors design, testing, and evaluation of interactive voice response (IVR) applications.

Human Factors and Voice Interactive Systems Springer Science & Business Media

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.

Applications and Usability of Interactive TV IGI Global

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.

Encyclopedia of Multimedia Springer Science & Business Media

The *Media Convergence Handbook* sheds new light on the complexity of media convergence and the related business challenges. Approaching the topic from a managerial, technological as well as end-consumer perspective, it acts as a reference book and educational resource in the field. Media convergence at business level may imply transforming business models and using multiplatform content production and distribution tools. However, it is shown that the implementation

of convergence strategies can only succeed when expectations and aspirations of every actor involved are taken into account. Media consumers, content producers and managers face different challenges in the process of media convergence. Volume II of the *Media Convergence Handbook* tackles these challenges by discussing media business models, production, and users' experience and perspectives from a technological convergence viewpoint.

Media in the Ubiquitous Era: Ambient, Social and Gaming Media Springer Science & Business Media

The developments in digital television technology provide the unprecedented opportunity to drastically extend the role of television as a content delivery channel. E-health, e-commerce, e-government, and e-learning are only a few examples of value-added services provided over digital televisions infrastructures. These changes in the television industry challenge companies to adjust their strategies in order to meet the opportunities and threats in this new environment. *Interactive Digital Television: Techniques and Applications* presents the developments in the domain of interactive digital television covering both technical and business aspects. This book focuses on analyzing concepts, research issues, and methodological approaches, presenting existing solutions such as systems and prototypes for researchers, academicians, scholars, professionals and practitioners.

Principles and Applications Now Publishers Inc

The Evolution of TV Systems, Content, and Users towards Interactivity provides an overview of the evolution of TV systems, TV content, and TV users towards interactivity, with a special focus on sociability aspects. Three basic concepts are introduced, namely, content editing, content sharing, and content control. Content editing corresponds to the activity of developing or organizing multimedia material, traditionally the domain of professionals but also including user-generated content. Content sharing refers to all kinds of social activities that might occur around television watching, such as chatting about television content and sharing content. Finally, content control corresponds to the activity of deciding what to watch and how to watch it. A simple taxonomy (edit-share-control) is proposed as an evolutionary step over the established hierarchical produce-deliver-consume paradigm. *The Evolution of TV Systems, Content, and Users towards Interactivity* looks at how research in the area has spanned a rather diverse set of scientific subfields, such as multimedia, HCI, CSCW, UIST, user modeling, media and communication sciences. It demonstrates how each disciplinary effort has contributed and why the full potential of interactive TV has not yet been fulfilled. Finally, it describes how interdisciplinary approaches could provide solutions to some notable contemporary research issues. *The Evolution of TV Systems, Content, and Users towards Interactivity* is aimed at students and researchers, practitioners and developers. It assumes a basic understanding of past and current practices on the design of computer applications, networks and media content.

The Volterra and Wiener Model Approaches Springer Science & Business Media

Descriptive Metadata for Television is a comprehensive introduction for television professionals that need to understand metadata's purpose and technology. This easy-to-read book translates obscure technical to hands-on language understandable by real people.

From Theory to Practice Springer Science & Business Media

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.

Linear, Nonlinear and Mixed Mode Processing Springer Science & Business Media

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.

Selected Methods for the Cancellation of Acoustical Echoes, the Reduction of Background Noise, and Speech Processing Springer

"This publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life"--Provided by publisher.

Mobile TV: Customizing Content and Experience Springer Science & Business Media

The Media Convergence Handbook sheds new light on the complexity of media convergence and the related business challenges. Approaching the topic from a managerial, technological as well as end-consumer perspective, it acts as a reference book and educational resource in the field. Media convergence at business level may imply transforming business models and using multiplatform content production and distribution tools. However, it is shown that the implementation of convergence strategies can only succeed when expectations and aspirations of every actor involved are taken into account. Media consumers, content producers and managers face different challenges in the process of media convergence. Volume I of the Media Convergence Handbook encourages an active discourse on media convergence by introducing the concept through general perspective articles and addressing the real-world challenges of convergence in the publishing, broadcasting and social media sectors.

Media Convergence Handbook - Vol. 1 Springer Science & Business Media

This book constitutes the refereed proceedings of the 4th Iberoamerican Conference on Applications and Usability of Interactive TV, jAUTI 2015, and the 6th Congress on Interactive Digital TV, CTVDI 2015, held in Palma de Mallorca, Spain, in October 2015. The 10 revised full papers and two short papers presented together with an invited talk were carefully reviewed and selected for this volume from 30 accepted submissions. The papers are organized in topical sections on Second Screen Applications Immersive TV; Video Consumption Development Tools; IDTV Interoperability; IDTV User Experience; Audiovisual Accessibility.

Capture, Transmission, Display Springer Science & Business Media

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.

The Evolution of TV Systems, Content, and Users Toward Interactivity IGI Global

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.

Satellite Communications and Navigation Systems Springer Science & Business Media

This volume addresses issues revolving around the production of mediated cultural products across borders. More specifically, the authors consider cross-border cultural production in the film and television industries and how it affects and is affected by media centers, and, more recently, established production locations. The film and television industries have long been recognized as playing important economic, political and cultural roles. And while it could be argued that, historically, these forms of cultural production often have been international endeavors, the choice of production sites has become an especially contentious issue during the last few decades as global production has expanded. While some factions, notably from the US film and television industries, refer to this issue as "runaway production," this book takes a much broader look at the implications and consequences of this phenomenon. Basically, cross-border production involves the expansion of production away from traditional centers, whether to other countries or to other locations within the same country. Thus, this study covers a wide range of issues involving economic and political considerations, as well as creative and aesthetic decision-making.

Digital Interactive TV and Metadata Digital Interactive TV and Metadata Future Broadcast Multimedia

Imaging for Forensics and Security: From Theory to Practice provides a detailed analysis of new imaging and pattern recognition techniques for the understanding and deployment of biometrics and forensic techniques as practical solutions to increase security. It contains a collection of the recent advances in the technology ranging from theory, design, and implementation to performance evaluation of biometric and forensic systems. This book also contains new methods such as the multiscale approach, directional filter bank, and wavelet maxima for the development of practical solutions to biometric problems. The book introduces a new forensic system based on shoeprint imagery with advanced techniques for use in forensics applications. It also presents the concept of protecting the originality of biometric images stored in databases against intentional and unintentional attacks and fraud detection data in order to further increase the security.

Algorithmic Information Theory Springer Science & Business Media

Telecommunication systems and human-machine interfaces have begun using multiple microphones and loudspeakers to render interaction more lifelike, and more efficient. This raises acoustic signal processing problems under multiple-input multiple-output (MIMO) scenarios, encompassing distant speech acquisition, sound source localization and tracking, echo and noise control, source separation and speech dereverberation, and many others.

The book opens with an acoustic MIMO paradigm, establishing fundamentals, and linking acoustic MIMO signal processing with classical signal processing and communication theories. The

second part of the book presents a novel analysis of acoustic applications carried out in the paradigm to reinforce the fundamentals of acoustic MIMO signal processing.

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