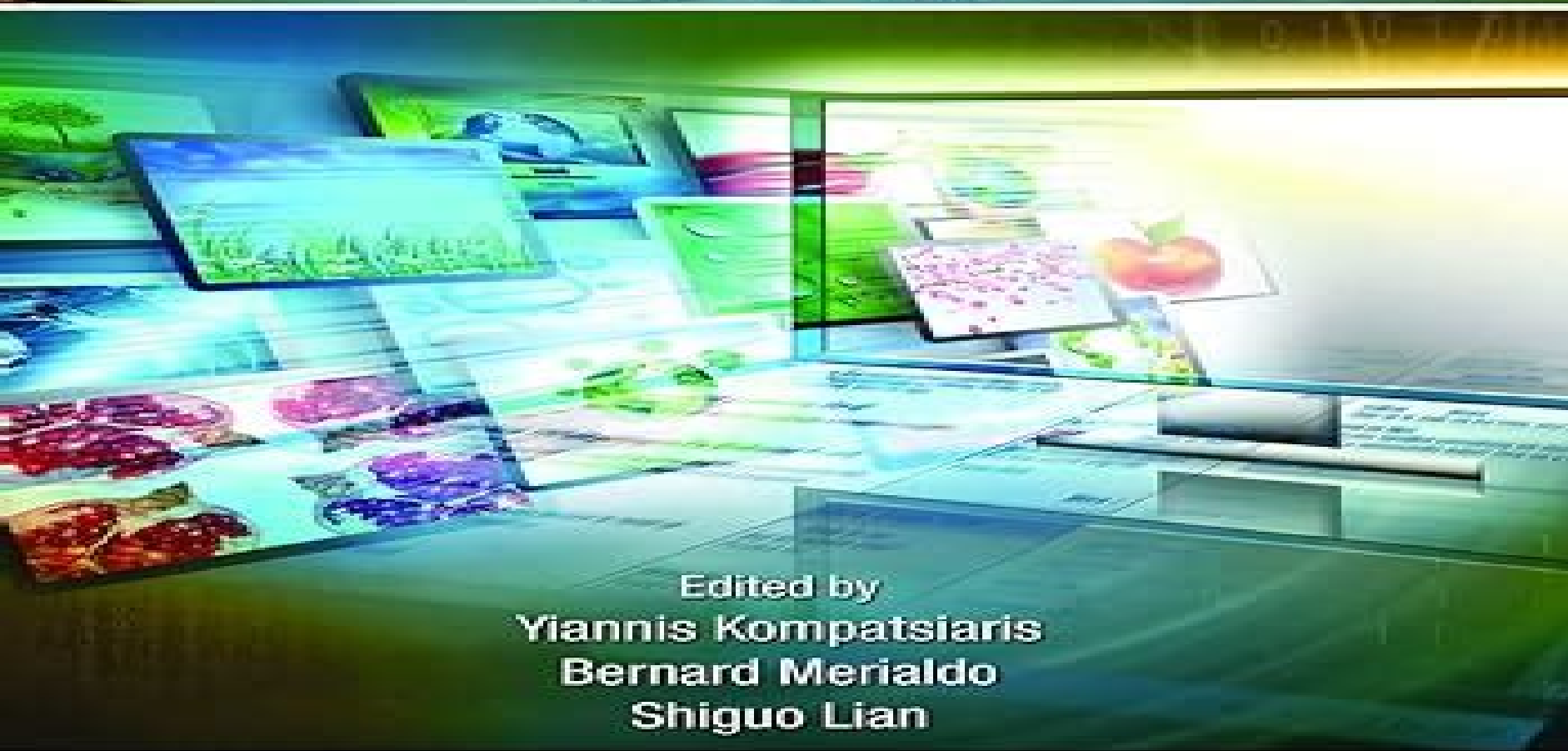


Series in Multimedia Computing, Communication and Intelligence

TV Content Analysis

Techniques and Applications



Edited by
Yiannis Kompatsiaris
Bernard Merialdo
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AN AUERBACH BOOK

Tv Content Analysis Techniques And Applications Multimedia Computing Communication And Intelligence

**Baochang Zhang, Sheng Xu, Mingbao
Lin, Tiancheng Wang, David Doermann**



Tv Content Analysis Techniques And Applications Multimedia Computing Communication And Intelligence:

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

Advances in Visual Data Compression and Communication Feng Wu, 2014-07-25 Visual information is one of the richest and most bandwidth consuming modes of communication To meet the requirements of emerging applications powerful data compression and transmission techniques are required to achieve highly efficient communication even in the presence of growing communication channels that offer increased bandwidth Presenting the results of the author s years of research on visual data compression and transmission Advances in Visual Data Compression and Communication Meeting the Requirements of New Applications provides a theoretical and technical basis for advanced research on visual data compression and communication The book studies the drifting problem in scalable video coding analyzes the reasons causing the problem and proposes various solutions to the problem It explores the author s Barbell based lifting coding scheme that has been adopted as common software by MPEG It also proposes a unified framework for deriving a directional transform from the nondirectional counterpart The structure of the framework and the statistic distribution of coefficients are similar to those of the nondirectional transforms which facilitates subsequent entropy coding Exploring the visual correlation that exists in media the text extends the current coding framework from different aspects including advanced image synthesis from description and reconstruction to organizing correlated images as a pseudo

sequence It explains how to apply compressive sensing to solve the data compression problem during transmission and covers novel research on compressive sensor data gathering random projection codes and compressive modulation For analog and digital transmission technologies the book develops the pseudo analog transmission for media and explores cutting edge research on distributed pseudo analog transmission denoising in pseudo analog transmission and supporting MIMO It concludes by considering emerging developments of information theory for future applications

Recent Advances in Information Systems and Technologies Álvaro Rocha, Ana Maria Correia, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, 2017-03-27 This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies WorldCIST 17 held between the 11st and 13th of April 2017 at Porto Santo Island Madeira Portugal WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges involved in modern Information Systems and Technologies research together with technological developments and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Ethics Computers Health Informatics Information Technologies in Education and Information Technologies in Radiocommunications

Uncoded Multimedia Transmission Feng Wu, Chong Luo, Hancheng Lu, 2021-07-18 An uncoded multimedia transmission UMT system is one that skips quantization and entropy coding in compression and all subsequent binary operations including channel coding and bit to symbol mapping of modulation By directly transmitting non binary symbols with amplitude modulation the uncoded system avoids the annoying cliff effect observed in the coded transmission system This advantage makes uncoded transmission more suited to both unicast in varying channel conditions and multicast to heterogeneous users Particularly in the first part of Uncoded Multimedia Transmission we consider how to improve the efficiency of uncoded transmission and make it on par with coded transmission We then address issues and challenges regarding how to better utilize temporal and spatial correlation of images and video in the uncoded transmission to achieve the optimal transmission performance Next we investigate the resource allocation problem for uncoded transmission including subchannel bandwidth and power allocation By properly allocating these resources uncoded transmission can achieve higher efficiency and more robust performance Subsequently we consider the image and video delivery in MIMO broadcasting networks with diverse channel quality and varying numbers of antennas across receivers Finally we investigate the cases where uncoded transmission can be used in conjunction with digital transmission for a balanced efficiency and adaptation capability This book is the very first monograph in the general area of uncoded multimedia transmission written in a self contained format It addresses both the fundamentals and the applications of uncoded transmission It gives a systematic

introduction to the fundamental theory and concepts in this field and at the same time also presents specific applications that reveal the great potential and impacts for the technologies generated from the research in this field By concentrating several important studies and developments currently taking place in the field of uncoded transmission in a single source this book can reduce the time and cost required to learn and improve skills and knowledge in the field The authors have been actively working in this field for years and this book is the final essence of their years of long research in this field The book may be used as a collection of research notes for researchers in this field a reference book for practitioners or engineers as well as a textbook for a graduate advanced seminar in this field or any related fields The references collected in this book may be used as further reading lists or references for the readers

Artificial Intelligence for Art Creation and Understanding Luntian Mou,2024-08-29 AI Generated Content AIGC is a revolutionary engine for digital content generation In the area of art AI has achieved remarkable advancements AI is capable of not only creating paintings or music comparable to human masterpieces but it also understands and appreciates artwork For professionals and amateurs AI is an enabling tool and an opportunity to enjoy a new world of art This book aims to present the state of the art AI technologies for art creation understanding and evaluation The contents include a survey on cross modal generation of visual and auditory content explainable AI and music AI enabled robotic theater for Chinese folk art AI for ancient Chinese music restoration and reproduction AI for brainwave opera artistic text style transfer data driven automatic choreography Human AI collaborative sketching personalized music recommendation and generation based on emotion and memory MemoMusic understanding music and emotion from the brain music question answering emotional quality evaluation for generated music and AI for image aesthetic evaluation The key features of the book are as follows AI for Art is a fascinating cross disciplinary field for the academic community as well as the public Each chapter is an independent interesting topic which provides an entry for corresponding readers It presents SOTA AI technologies for art creation and understanding The artistry and appreciation of the book is wide ranging for example the combination of AI with traditional Chinese art This book is dedicated to the international cross disciplinary AI Art community professors students researchers and engineers from AI machine learning computer vision multimedia computing affective computing robotics etc art painting music dance fashion design etc cognitive science and psychology General audiences can also benefit from this book

Binary Neural Networks Baochang Zhang,Sheng Xu,Mingbao Lin,Tiancheng Wang,David Doermann,2023-12-13 Key Features Review recent advances in CNN compression and acceleration Elaborate recent advances on binary neural network BNN technologies Introduce applications of Binary Neural Network in image classification speech recognition object detection etc

Computational Collective Intelligence Manuel Núñez,Ngoc Thanh Nguyen,David Camacho,Bogdan Trawiński,2015-09-09 This two volume set LNAI 9329 and LNAI 9330 constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence ICCCI 2014 held in Madrid Spain in September 2015 The 110 full papers presented were carefully reviewed and selected from 186 submissions

They are organized in topical sections such as multi agent systems social networks and NLP sentiment analysis computational intelligence and games ontologies and information extraction formal methods and simulation neural networks SMT and MIS collective intelligence in Web systems Web systems analysis computational swarm intelligence cooperative strategies for decision making and optimization advanced networking and security technologies IT in biomedicine collective computational intelligence in educational context science intelligence and data analysis computational intelligence in financial markets ensemble learning big data mining and searching

Music Emotion Recognition Yi-Hsuan Yang, Homer H. Chen, 2011-02-22 Providing a complete review of existing work in music emotion developed in psychology and engineering Music Emotion Recognition explains how to account for the subjective nature of emotion perception in the development of automatic music emotion recognition MER systems Among the first publications dedicated to automatic MER it begins with a comprehensive introduction to the essential aspects of MER including background key techniques and applications This ground breaking reference examines emotion from a dimensional perspective It defines emotions in music as points in a 2D plane in terms of two of the most fundamental emotion dimensions according to psychologists valence and arousal The authors present a computational framework that generalizes emotion recognition from the categorical domain to real valued 2D space They also Introduce novel emotion based music retrieval and organization methods Describe a ranking base emotion annotation and model training method Present methods that integrate information extracted from lyrics chord sequence and genre metadata for improved accuracy Consider an emotion based music retrieval system that is particularly useful for mobile devices The book details techniques for addressing the issues related to the ambiguity and granularity of emotion description heavy cognitive load of emotion annotation subjectivity of emotion perception and the semantic gap between low level audio signal and high level emotion perception Complete with more than 360 useful references 12 example MATLAB codes and a listing of key abbreviations and acronyms this cutting edge guide supplies the technical understanding and tools needed to develop your own automatic MER system based on the automatic recognition model

Effective Surveillance for Homeland Security Francesco Flammini, Roberto Setola, Giorgio Franceschetti, 2013-06-10 Effective Surveillance for Homeland Security Balancing Technology and Social Issues provides a comprehensive survey of state of the art methods and tools for the surveillance and protection of citizens and critical infrastructures against natural and deliberate threats Focusing on current technological challenges involving multi disciplinary problem analysis and systems engineering approaches it provides an overview of the most relevant aspects of surveillance systems in the framework of homeland security Addressing both advanced surveillance technologies and the related socio ethical issues the book consists of 21 chapters written by international experts from the various sectors of homeland security Part I Surveillance and Society focuses on the societal dimension of surveillance stressing the importance of societal acceptability as a precondition to any surveillance system Part II Physical and Cyber Surveillance presents advanced technologies for surveillance It considers

developing technologies that are part of a framework whose aim is to move from a simple collection and storage of information toward proactive systems that are able to fuse several information sources to detect relevant events in their early incipient phase Part III Technologies for Homeland Security considers relevant applications of surveillance systems in the framework of homeland security It presents real world case studies of how innovative technologies can be used to effectively improve the security of sensitive areas without violating the rights of the people involved Examining cutting edge research topics the book provides you with a comprehensive understanding of the technological legislative organizational and management issues related to surveillance With a specific focus on privacy it presents innovative solutions to many of the issues that remain in the quest to balance security with the preservation of privacy that society demands **Optimal**

Resource Allocation for Distributed Video Communication Yifeng He,Ling Guan,Wenwu Zhu,2016-04-19 Focusing on resource optimization for distributed video and multimedia communications this book examines four applications in optimal resource allocations with distributed algorithms including problem formulation theoretical analysis and simulation results Suitable for both industry practitioners and academics it introduces the characteristics recent advances and current challenges in distributed systems as well as a solutions framework to tackle those challenges Discussing cutting edge topics such as the theory of convex optimization and the development of a distributed algorithm using dual decomposition the book concludes with open issues to stimulate further learning *Multimedia Analysis, Processing and Communications* Lin Weisi,Dacheng Tao,Janusz Kacprzyk,Zhu Li,Ebroul Izquierdo,Haohong Wang,2011-04-11 This book has brought 24 groups of experts and active researchers around the world together in image processing and analysis video processing and analysis and communications related processing to present their newest research results exchange latest experiences and insights and explore future directions in these important and rapidly evolving areas It aims at increasing the synergy between academic and industry professionals working in the related field It focuses on the state of the art research in various essential areas related to emerging technologies standards and applications on analysis processing computing and communication of multimedia information The target audience of this book is researchers and engineers as well as graduate students working in various disciplines linked to multimedia analysis processing and communications e g computer vision pattern recognition information technology image processing and artificial intelligence The book is also meant to a broader audience including practicing professionals working in image video applications such as image processing video surveillance multimedia indexing and retrieval and so on We hope that the researchers engineers students and other professionals who read this book would find it informative useful and inspirational toward their own work in one way or another

Information Retrieval and Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2018-01-05 With the increased use of technology in modern society high volumes of multimedia information exists It is important for businesses organizations and individuals to understand how to optimize this

data and new methods are emerging for more efficient information management and retrieval Information Retrieval and Management Concepts Methodologies Tools and Applications is an innovative reference source for the latest academic material in the field of information and communication technologies and explores how complex information systems interact with and affect one another Highlighting a range of topics such as knowledge discovery semantic web and information resources management this multi volume book is ideally designed for researchers developers managers strategic planners and advanced level students **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 **Security for**

Wireless Sensor Networks using Identity-Based Cryptography Harsh Kupwade Patil,Stephen A. Szygenda,2012-10-18 Security for Wireless Sensor Networks using Identity Based Cryptography introduces identity based cryptographic schemes for wireless sensor networks It starts with an exhaustive survey of the existing layered approach to WSN security detailing its pros and cons Next it examines new attack vectors that exploit the layered approach to security After providing the necessary background the book presents a cross layer design approach that addresses authentication integrity and encryption It also examines new ID based key management mechanisms using a cross layer design perspective In addition secure routing algorithms using ID based cryptography are also discussed Supplying readers with the required foundation in elliptic curve cryptography and identity based cryptography the authors consider new ID based security solutions to overcome cross layer attacks in WSN Examining the latest implementations of ID based cryptography on sensors the book combines cross layer design principles along with identity based cryptography to provide you with a new set of security solutions that can boost storage computation and energy efficiency in your wireless sensor networks **Resources in**

Education ,1994 Tenth International Conference on Applications and Techniques in Cyber Intelligence (ICATCI 2022) Jemal H. Abawajy,Zheng Xu,Mohammed Atiquzzaman,Xiaolu Zhang,2023-04-07 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to secure our cyberfuture The book describes approaches and findings that are of interest to business professionals and governments seeking to secure our data and underpin infrastructures as well as to individual users *Leveraging Computer Vision to Biometric Applications* Arvind Selwal,Deepika Sharma,Mukesh Mann,Sudeshna Chakraborty,Valentina E. Balas,Ouh Eng Lieh,2024-10-07 Computer vision is an effective solution in a diverse range of real life applications With the advent of the machine and deep learning paradigms this book adopts machine and deep learning algorithms to leverage digital image processing for designing accurate biometrical applications In this aspect it presents the advancements made in computer vision to biometric

applications design approach using emerging technologies It discusses the challenges of designing efficient and accurate biometric based systems which is a key issue that can be tackled via computer vision based techniques

Key Features

Discusses real life applications of emerging techniques in computer vision systems Offers solutions on real time computer vision and biometrics applications to cater to the needs of current industry Presents case studies to offer ideas for developing new biometrics based products Offers problem based solutions in the field computer vision and real time biometric applications for secured human authentication Works as a ready resource for professionals and scholars working on emerging topics of computer vision for biometrics The book is for academic researchers scholars and students in Computer Science Information Technology Electronics and Electrical Engineering Mechanical Engineering management academicians researchers scientists and industry people working on computer vision and biometrics applications

Emerging Research on Networked Multimedia Communication Systems Kanellopoulos, Dimitris,2015-08-14 Fifth International Conference on Computational Intelligence and Multimedia Applications

L. Jiao,2003 *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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