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VIDEO MINING

Springer Science & Business Media **Video Mining is an essential reference for the practitioners and academicians in the fields of multimedia search engines. Half a terabyte or 9,000 hours of motion pictures are produced around the world every year. Furthermore, 3,000 television stations broadcasting for twenty-four hours a day produce eight million hours per year, amounting to 24,000 terabytes of data. Although some of the data is labeled at the time of production, an enormous portion remains unindexed. For practical access to such huge amounts of data, there is a great need to develop efficient tools for browsing and retrieving content of interest, so that producers and end users can quickly locate specific video sequences in this ocean of audio-visual data. Video Mining is important because it describes the main techniques being developed by the major players in industry and academic research to address this problem. It is the first time research from these leaders in the field developing the next-generation multimedia search engines is being described in great detail and gathered into a single volume. Video Mining will give valuable insights to all researchers and non-specialists who want to understand the principles applied by the multimedia search engines that are about to be deployed on the Internet, in studios' multimedia asset management systems, and in video-on-demand systems.**

ADVANCES IN IMAGE AND VIDEO TECHNOLOGY

THIRD PACIFIC RIM SYMPOSIUM, PSIVT 2009, TOKYO, JAPAN, JANUARY 13-16, 2009, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the Third Pacific Rim Symposium on Image and Video Technology, PSIVT 2008, held in Tokyo, Japan, in January 2009. The 39 revised full papers and 57 posters were carefully reviewed and selected from 247 submissions. The symposium features 8 major themes including all aspects of image and video technology: image sensors and multimedia hardware; graphics and visualization; image and video analysis; recognition and retrieval; multi-view imaging and processing; computer vision applications; video communications and networking; and multimedia processing. The papers are organized in topical sections on faces and pedestrians; panoramic images; local image analysis; organization and grouping; multiview geometry; detection and tracking; computational photography and forgeries; coding and steganography; recognition and search; and reconstruction and visualization.**

MULTIDIMENSIONAL SIGNAL, IMAGE, AND VIDEO PROCESSING AND CODING

Academic Press **This fully revised and expanded edition gives readers the necessary understanding of image and video processing concepts to contribute to this hot technology's future advances. Important new topics include introductory random processes, image enhancement and analysis, and the new MPEG scalable video coding standard.**

COMPUTER VISION

AAV 2010

Springer Science & Business Media **The four-volume set LNCS 6492-6495 constitutes the thoroughly refereed post-proceedings of the 10th Asian Conference on Computer Vision, ACCV 2009, held in Queenstown, New Zealand in November 2010. All together the four volumes present 206 revised papers selected from a total of 739 Submissions. All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images, optical methods coupled with computational techniques that enhance and improve images, and capturing and analyzing the world's geometry while preparing the higher level image and shape understanding. Novel gemometry techniques, statistical learning methods, and modern algebraic procedures are dealt with as well.**

IMAGE AND VIDEO RETRIEVAL

4TH INTERNATIONAL CONFERENCE, CIVR 2005, SINGAPORE, JULY 20-22, 2005, PROCEEDINGS

Springer **It was our great pleasure to host the 4th International Conference on Image and Video Retrieval (CIVR) at the National University of Singapore on 20–22 July 2005. CIVR aims to provide an international forum for the discussion of research challenges and exchange of ideas among researchers and practitioners in image/video retrieval technologies. It addresses innovative research in the broad ?eld of image and video retrieval. A unique feature of this conference is the high level of participation by researchers from both academia and industry. Another unique feature of CIVR this year was in its format – it o?ered both the traditional oral presentation sessions, as well as the short presentation cum poster sessions. The latter provided an informal alternative forum for animated discussions and exchanges of ideas among the participants. We are pleased to note that interest in CIVR has grown over the years. The number of submissions has steadily increased from 82 in 2002, to 119 in 2003, and 125 in 2004. This year, we received 128 submissions from the international communities:with81(63.3%)fromAsiaandAustralia,25(19.5%)fromEurope, and 22 (17.2%) from North America. After a rigorous review process, 20 papers were accepted for oral presentations, and 42 papers were accepted for poster presentations. In addition to the accepted submitted papers, the program also included 4 invited papers, 1 keynote industrial paper, and 4 invited industrial papers. Altogether, we o?ered a diverse and interesting program, addressing the current interests and future trends in this area.**

COMPUTER VISION - ACCV 2010

10TH ASIAN CONFERENCE ON COMPUTER VISION, QUEENSTOWN, NEW ZEALAND, NOVEMBER 8-12, 2010, REVISED SELECTED PAPERS, PART I

Springer **The four-volume set LNCS 6492-6495 constitutes the thoroughly refereed post-proceedings of the 10th Asian Conference on Computer Vision, ACCV 2009, held in Queenstown, New Zealand in November 2010. All together the four volumes present 206 revised papers selected from a total of 739 Submissions. All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images, optical methods coupled with computational techniques that enhance and improve images, and capturing and analyzing the world's geometry while preparing the higher level image and shape understanding. Novel gemometry techniques, statistical**

learning methods, and modern algebraic procedures are dealt with as well.

WIRELESS VIDEO COMMUNICATIONS

SECOND TO THIRD GENERATION AND BEYOND

John Wiley & Sons **Bridging the gap between the video compression and communication communities, this unique volume provides an all-encompassing treatment of wireless video communications, compression, channel coding, and wireless transmission as a joint subject. WIRELESS VIDEO COMMUNICATIONS begins with relatively simple compression and information theoretical principles, continues through state-of-the-art and future concepts, and concludes with implementation-ready system solutions. This book's deductive presentation and broad scope make it essential for anyone interested in wireless communications. It systematically converts the lessons of Shannon's information theory into design principles applicable to practical wireless systems. It provides in a comprehensive manner "implementation-ready" overall system design and performance studies, giving cognizance to the contradictory design requirements of video quality, bit rate, delay, complexity error resilience, and other related system design aspects. Topics covered include information theoretical foundations block-based and convolutional channel coding very-low-bit-rate video codecs and multimode videophone transceivers high-resolution video coding using both proprietary and standard schemes CDMA/OFDM systems, third-generation and beyond adaptive video systems. WIRELESS VIDEO COMMUNICATIONS is a valuable reference for postgraduate researchers, system engineers, industrialists, managers and visual communications practitioners.**

TEMPORAL VIDEO SEGMENTATION

Jörg Vogt Verlag

INTRODUCTION TO PROBABILITY

CRC Press **Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional**

VIDEO AND MULTIMEDIA TRANSMISSIONS OVER CELLULAR NETWORKS

ANALYSIS, MODELLING AND OPTIMIZATION IN LIVE 3G MOBILE COMMUNICATIONS

John Wiley & Sons **This excellent reference provides detailed analysis and optimization aspects of live 3G mobile communication networks Video and Multimedia Transmissions over Cellular Networks describes the state-of-the-art in the transmission of multimedia over cellular networks, evaluates the performance of the running system based on the measurements and monitoring of live networks, and finally presents concepts and methods for improving of the quality in such systems. Key Features: Addresses the transmission of different media over cellular networks, with a focus on evolving UMTS transmission systems Provides in-depth coverage of UMTS network architecture, and an overview of 3GPP video services Describes the characteristics of the link layer errors in the UMTS Terrestrial radio Access Network (UTRAN), obtained by extensive measurements in live UMTS networks Covers video encoding and decoding, introducing H.264/AVC video codec, as well as addressing various novel concepts for increased error resilience Discusses the real-time capable algorithms that are suitable for implementation in power and size limited terminals Presents the methods for monitoring quality, as well as analyzing and modelling traffic evolution in the cellular mobile network This book provides a valuable reference for researchers and students working in the field of multimedia transmission over wireless networks. Industry experts and professionals working within the field will also find this book of interest.**

IPTV SECURITY

PROTECTING HIGH-VALUE DIGITAL CONTENTS

John Wiley & Sons **Television was one of the inventions that shaped the way society and culture evolved over the second half of the twentieth century. It had the powerful effect of shrinking the world which creating a unified view of how things were. There continues to be an evolution of television and a migration towards a fully interactive and ubiquitous IPTV. IPTV Security describes the science and history behind TV as well as detailed descriptions of all the architectural components that comprise an IPTV environment. It covers subjects logically from the Head End passing through the aggregation network and concluding with the Home End environment. The countermeasures required to ensure the safe operation of the IPTV environment are also examined, including Digital Rights Management technologies, network**

level security and application level security. IPTV Security defines the security model for an IPTV environment, ensuring that all critical elements are covered and a layered approach to security is implemented. One of the only books available on IPTV Security Provides a comprehensive view of IPTV components along with the associated threats and required countermeasures Detailed descriptions allow readers to understand the technology even if new to the field A complete reference guide to the security aspects of IPTV. This book is ideal for anyone responsible for IPTV security such as security officers and auditors working with internet services and telecommunications providers, phone and cable companies, content owners and security consultants and architects. It will also be of interest to networking and security engineers, software developers, network operators and university lectures and students involved in media, IT and security.

ADVANCES AND CHALLENGES IN MULTISENSOR DATA AND INFORMATION PROCESSING

IOS Press **Information fusion resulting from multi-source processing, often called multisensor data fusion when sensors are the main sources of information, is a relatively young (less than 20 years) technology domain. It provides techniques and methods for: Integrating data from multiple sources and using the complementarity of this data to derive maximum information about the phenomenon being observed; Analyzing and deriving the meaning of these observations; Selecting the best course of action; and Controlling the actions. Various sensors have been designed to detect some specific phenomena, but not others. Data fusion applications can combine synergically information from many sensors, including data provided by satellites and contextual and encyclopedic knowledge, to provide enhanced ability to detect and recognize anomalies in the environment, compared with conventional means. Data fusion is an integral part of multisensor processing, but it can also be applied to fuse non-sensor information (geopolitical, intelligence, etc.) to provide decision support for a timely and effective situation and threat assessment. One special field of application for data fusion is satellite imagery, which can provide extensive information over a wide area of the electromagnetic spectrum using several types of sensors (Visible, Infra-Red (IR), Thermal IR, Radar, Synthetic Aperture Radar (SAR), Polarimetric SAR (PolSAR), Hyperspectral...). Satellite imagery provides the coverage rate needed to identify and monitor human activities from agricultural practices (land use, crop types identification...) to defence-related surveillance (land/sea target detection and classification). By acquiring remotely sensed imagery over earth regions that land sensors cannot access, valuable information can be gathered for the defence against terrorism. This books deals with the following research areas: Target recognition/classification and tracking; Sensor systems; Image processing; Remote sensing and remote control; Belief functions theory; and Situation assessment.**

GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX

BIG DATA ANALYTICS FOR SMART AND CONNECTED CITIES

IGI Global **To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.**

JOURNAL OF VLSI SIGNAL PROCESSING SYSTEMS FOR SIGNAL, IMAGE, AND VIDEO TECHNOLOGY

ADVANCED TECHNIQUES IN MULTIMEDIA WATERMARKING: IMAGE, VIDEO AND AUDIO APPLICATIONS

IMAGE, VIDEO AND AUDIO APPLICATIONS

IGI Global **"This book introduces readers to state-of-art research in multimedia watermarking in the different disciplines of watermarking, addressing the different aspects of advanced watermarking research; modeling and theoretical analysis, advanced embedding and extraction techniques, software and hardware implementations, and performance evaluations of watermarking systems"--Provided by publisher.**

KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS

9TH INTERNATIONAL CONFERENCE, KES 2005, MELBOURNE, AUSTRALIA, SEPTEMBER 14-16, 2005, PROCEEDINGS, PART IV

Springer **Dear delegates,friendsand membersofthe growingKES professionalcommunity,w- come to the proceedings of**

the 9th International Conference on Knowledge-Based and IntelligentInformationandEngineeringSystemshostedbyLa TrobeUniversityin M- bourne Australia. The KES conference series has been established for almost a decade, and it cont- ues each year to attract participants from all geographical areas of the world, including Europe, the Americas, Australasia and the Paci?c Rim. The KES conferences cover a wide range of intelligent systems topics. The broad focus of the conference series is the theory and applications of intelligent systems. From a pure research ?eld, intel- gent systems have advanced to the point where their abilities have been incorporated into many business and engineering application areas. KES 2005 provided a valuable mechanism for delegates to obtain an extensive view of the latest research into a range of intelligent-systems algorithms, tools and techniques. The conference also gave de- gates the chance to come into contact with those applying intelligent systems in diverse commercial areas. The combination of theory and practice represented a unique opp- tunity to gain an appreciation of the full spectrum of leading-edge intelligent-systems activity. The papers for KES 2005 were either submitted to invited sessions, chaired and organized by respected experts in their ?elds, or to a general session, managed by an extensive International Program Committee, or to the Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP) Workshop, managed by an International Workshop Technical Committee.

SIGNAL CODING AND PROCESSING

AN INTRODUCTION BASED ON VIDEO SYSTEMS

NATO'S ENLARGEMENT AND RUSSIA

BoD – Books on Demand The Kremlin has sought to establish an exclusive Russian sphere of influence in the nations lying between Russia and the EU, from Georgia in 2008 to Ukraine in 2014 and Belarus in 2020. It has extended its control by means of military intervention, territorial annexation, economic pressure and covert activities. Moscow seeks to justify this behavior by referring to an alleged threat from NATO and the Alliance's eastward enlargement. In the rhetoric of the Kremlin, NATO expansion is the main source for Moscow's stand-off with the West. This collection of essays and analyses by prominent politicians, diplomats, and scholars from the US, Russia, and Europe provides personal perspectives on the sources of the Russian-Western estrangement. They draw on historical experience, including the Russian-Western controversies that intensified with NATO's eastward expansion in the 1990s, and reflect on possible perspectives of reconcilitation within the renewed transatlantic relationship. The volume touches upon alleged and

real security guarantees for the countries of Eastern and Central Europe as well as past and current deficits in the Western strategy for dealing with an increasingly hostile Russia. Thus, it contributes to the ongoing Western debate on which policies towards Russia can help to overcome the deep current divisions and to best meet Europe's future challenges.

STOCHASTIC PROCESSES

THEORY FOR APPLICATIONS

Cambridge University Press **This definitive textbook provides a solid introduction to discrete and continuous stochastic processes, tackling a complex field in a way that instils a deep understanding of the relevant mathematical principles, and develops an intuitive grasp of the way these principles can be applied to modelling real-world systems. It includes a careful review of elementary probability and detailed coverage of Poisson, Gaussian and Markov processes with richly varied queuing applications. The theory and applications of inference, hypothesis testing, estimation, random walks, large deviations, martingales and investments are developed. Written by one of the world's leading information theorists, evolving over twenty years of graduate classroom teaching and enriched by over 300 exercises, this is an exceptional resource for anyone looking to develop their understanding of stochastic processes.**

REPORT

QUALITY, RELIABILITY, SECURITY AND ROBUSTNESS IN HETEROGENEOUS SYSTEMS

14TH EAI INTERNATIONAL CONFERENCE, QSHINE 2018, HO CHI MINH CITY, VIETNAM, DECEMBER 3–4, 2018, PROCEEDINGS

Springer **This book constitutes the refereed post-conference proceedings of the 14th EAI International Conference on Quality, Reliability, Security and Robustness in Heterogeneous Networks, QShine 2018, held in Ho Chi Minh City, Vietnam, in December 2018. The 13 revised full papers were carefully reviewed and selected from 28 submissions. The papers are organized thematically in tracks, starting with security and privacy, telecommunication systems and networks, networks and applications.**

ROUTLEDGE HANDBOOK OF THE ARAB SPRING

RETHINKING DEMOCRATIZATION

Routledge **The self-immolation of Mohammed Bouazizi in Tunisia in December 2010 heralded the arrival of the 'Arab Spring,' a startling, yet not unprecedented, era of profound social and political upheaval. The meme of the Arab Spring is characterised by bottom-up change, or the lack thereof, and its effects are still unfurling today. The Routledge Handbook of the Arab Spring seeks to provide a departure point for ongoing discussion of a fluid phenomenon on a plethora of topics, including: Contexts and contests of democratisation The sweep of the Arab Spring Egypt Women and the Arab Spring Agents of change and the technology of protest Impact of the Arab Spring in the wider Middle East and further afield Collating a wide array of viewpoints, specialisms, biases, and degrees of proximity and distance from events that shook the Arab world to its core, the Handbook is written with the reader in mind, to provide students, practitioners, diplomats, policy-makers and lay readers with contextualization and knowledge, and to set the stage for further discussion of the Arab Spring.**

SELECTED WORKS OF DAVID BRILLINGER

Springer Science & Business Media **This volume contains 30 of David Brillinger's most influential papers. He is an eminent statistical scientist, having published broadly in time series and point process analysis, seismology, neurophysiology, and population biology. Each of these areas are well represented in the book. The volume has been divided into four parts, each with comments by one of Dr. Brillinger's former PhD students. His more theoretical papers have comments by Victor Panaretos from Switzerland. The area of time series has commentary by Pedro Morettin from Brazil. The biologically oriented papers are commented by Tore Schweder from Norway and Haiganoush Preisler from USA, while the point process papers have comments by Peter Guttorp from USA. In addition, the volume contains a Statistical Science interview with Dr. Brillinger, and his bibliography.**

DISCRETE CHOICE METHODS WITH SIMULATION

Cambridge University Press **This book describes the new generation of discrete choice methods, focusing on the many advances that are made possible by simulation. Researchers use these statistical methods to examine the choices that consumers, households, firms, and other agents make. Each of the major models is covered: logit, generalized extreme**

value, or GEV (including nested and cross-nested logits), probit, and mixed logit, plus a variety of specifications that build on these basics. Simulation-assisted estimation procedures are investigated and compared, including maximum stimulated likelihood, method of simulated moments, and method of simulated scores. Procedures for drawing from densities are described, including variance reduction techniques such as anithetics and Halton draws. Recent advances in Bayesian procedures are explored, including the use of the Metropolis-Hastings algorithm and its variant Gibbs sampling. The second edition adds chapters on endogeneity and expectation-maximization (EM) algorithms. No other book incorporates all these fields, which have arisen in the past 25 years. The procedures are applicable in many fields, including energy, transportation, environmental studies, health, labor, and marketing.

EMERGING TECHNOLOGIES IN INTELLIGENT APPLICATIONS FOR IMAGE AND VIDEO PROCESSING

IGI Global **Image and Video Processing is an active area of research due to its potential applications for solving real-world problems. Integrating computational intelligence to analyze and interpret information from image and video technologies is an essential step to processing and applying multimedia data. Emerging Technologies in Intelligent Applications for Image and Video Processing presents the most current research relating to multimedia technologies including video and image restoration and enhancement as well as algorithms used for image and video compression, indexing and retrieval processes, and security concerns. Featuring insight from researchers from around the world, this publication is designed for use by engineers, IT specialists, researchers, and graduate level students.**

DIGITAL ACTIVISM IN RUSSIA

THE COMMUNICATION TACTICS OF POLITICAL OUTSIDERS

Springer Nature **This book provides an in-depth investigation of Russian online anti-establishment resistances in 2016–2019. Grounded in qualitative content analysis of the YouTube videos and social media data of opposition activist Alexey Navalny and his associates, the research covers the history of these communications, their tactics, and the impact on the Russian public sphere and peripheral electorates. Drawing from populism, journalism and digital media studies, Glazunova skilfully shows Russia's digital public sphere to be a multi-faceted site with its own struggles, challenges, and unique communication strategies for political survival. An important and original work, Digital Activism in Russia reflects on the past, present, and future of such resistances in Russia, the central role played by digital media, and its relevance for the political activists struggling for democracy around the world.**

IMAGE AND VIDEO COMPRESSION FOR MULTIMEDIA ENGINEERING

FUNDAMENTALS, ALGORITHMS, AND STANDARDS, THIRD EDITION

CRC Press **The latest edition provides a comprehensive foundation for image and video compression. It covers HEVC/H.265 and future video coding activities, in addition to Internet Video Coding. The book features updated chapters and content, along with several new chapters and sections. It adheres to the current international standards, including the JPEG standard.**

SPATIALIZING AUTHORITARIANISM

Syracuse University Press **Authoritarianism has emerged as a prominent theme in popular and academic discussions of politics since the 2016 US presidential election and the coinciding expansion of authoritarian rhetoric and ideals across Europe, Asia, and beyond. Until recently, however, academic geographers have not focused squarely on the concept of authoritarianism. Its longstanding absence from the field is noteworthy as geographers have made extensive contributions to theorizing structural inequalities, injustice, and other expressions of oppressive or illiberal power relations and their diverse spatialities. Identifying this void, Spatializing Authoritarianism builds upon recent research to show that even when conceptualized as a set of practices rather than as a simple territorial label, authoritarianism has a spatiality: both drawing from and producing political space and scale in many often surprising ways. This volume advances the argument that authoritarianism must be investigated by accounting for the many scales at which it is produced, enacted, and imagined. Including a diverse array of theoretical perspectives and empirical cases drawn from the Global South and North, this collection illustrates the analytical power of attending to authoritarianism's diverse scalar and spatial expressions, and how intimately connected it is with identity narratives, built landscapes, borders, legal systems, markets, and other territorial and extraterritorial expressions of power.**

GREENING VIDEO DISTRIBUTION NETWORKS

ENERGY-EFFICIENT INTERNET VIDEO DELIVERY

Springer **This insightful text presents a guide to video distribution networks (VDNs), providing illuminating perspectives on reducing power consumption in IP-based video networks from an authoritative selection of experts in the field. A**

particular focus is provided on aspects of architectures, models, Internet protocol television (IPTV), over-the-top (OTT) video content, video on demand (VoD) encoding and decoding, mobile terminals, wireless multimedia sensor networks (WMSNs), software defined networking (SDN), and techno-economic issues. Topics and features: reviews the fundamentals of video over IP distribution systems, and the trade-offs between network/service performance and energy efficiency in VDNs; describes the characterization of the main elements in a video distribution chain, and techniques to decrease energy consumption in software-based VoD encoding; introduces an approach to reduce power consumption in mobile terminals during video playback, and in data center networks using the SDN paradigm; discusses the strengths and limitations of different methods for measuring the energy consumption of mobile devices; proposes optimization methods to improve the energy efficiency of WMSNs, and a routing algorithm that reduces energy consumption while maintaining the bandwidth; presents an economic analysis of the savings yielded by approaches to minimize energy consumption of IPTV and OTT video content services. The broad coverage and practical insights offered in this timely volume will be of great value to all researchers, practitioners and students involved with computer and telecommunication systems.

A UNIFIED FRAMEWORK FOR VIDEO SUMMARIZATION, BROWSING & RETRIEVAL

WITH APPLICATIONS TO CONSUMER AND SURVEILLANCE VIDEO

Elsevier **Large volumes of video content can only be easily accessed by the use of rapid browsing and retrieval techniques. Constructing a video table of contents (ToC) and video highlights to enable end users to sift through all this data and find what they want, when they want are essential. This reference puts forth a unified framework to integrate these functions supporting efficient browsing and retrieval of video content. The authors have developed a cohesive way to create a video table of contents, video highlights, and video indices that serve to streamline the use of applications in consumer and surveillance video applications. The authors discuss the generation of table of contents, extraction of highlights, different techniques for audio and video marker recognition, and indexing with low-level features such as color, texture, and shape. Current applications including this summarization and browsing technology are also reviewed. Applications such as event detection in elevator surveillance, highlight extraction from sports video, and image and video database management are considered within the proposed framework. This book presents the latest in research and readers will find their search for knowledge completely satisfied by the breadth of the information covered in this volume. * Offers the latest in cutting edge research and applications in surveillance and**

consumer video * Presentation of a novel unified framework aimed at successfully sifting through the abundance of footage gathered daily at shopping malls, airports, and other commercial facilities * Concisely written by leading contributors in the signal processing industry with step-by-step instruction in building video ToC and indices

ADVANCES IN IMAGE AND VIDEO TECHNOLOGY

FIRST PACIFIC RIM SYMPOSIUM, PSIVT 2006, HSINCHU, TAIWAN, DECEMBER 10-13, 2006, PROCEEDINGS

Springer Science & Business Media **This book constitutes the refereed proceedings of the First Pacific Rim Symposium on Image and Video Technology, PSIVT 2006, held in Hsinchu, Taiwan in December 2006. The 76 revised full papers and 58 revised poster papers cover a wide range of topics, including all aspects of video and multimedia, both technical and artistic perspectives and both theoretical and practical issues.**

CONVEX OPTIMIZATION

Cambridge University Press **A comprehensive introduction to the tools, techniques and applications of convex optimization.**

BILDVERARBEITUNG FÜR DIE MEDIZIN 2015

ALGORITHMEN - SYSTEME - ANWENDUNGEN. PROCEEDINGS DES WORKSHOPS VOM 15. BIS 17. MÄRZ 2015 IN LÜBECK

Springer-Verlag **In den letzten Jahren hat sich der Workshop "Bildverarbeitung für die Medizin" durch erfolgreiche Veranstaltungen etabliert. Ziel ist auch 2015 wieder die Darstellung aktueller Forschungsergebnisse und die Vertiefung der Gespräche zwischen Wissenschaftlern, Industrie und Anwendern. Die Beiträge dieses Bandes - einige davon in englischer Sprache - umfassen alle Bereiche der medizinischen Bildverarbeitung, insbesondere Bildgebung und -akquisition, Molekulare Bildgebung, Visualisierung und Animation, Bildsegmentierung und - fusion,Sichtbares Licht, Endoskopie, Mikroskoopie, Zeitreihenanalysen, Biomechanische Modellierung, Klinische Anwendung computerunterstützter Systeme, Validierung und Qualitätssicherung, Virtual / Augmented Reality, Bildgestützte Roboter, Chirurgische Simulatoren u.v.m.**

JT/T 1078-2016: TRANSLATED ENGLISH OF CHINESE STANDARD. JT/T1078-2016 (JTT 1078-2016; JTT1078-2016)

GNSS SYSTEM FOR OPERATING VEHICLES - VIDEO COMMUNICATION PROTOCOL [AFTER PAYMENT, WRITE TO & GET A FREE-OF-CHARGE, UNPROTECTED TRUE-PDF FROM: SALES@CHINESESTANDARD.NET]

https://www.chinesestandard.net **[After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the protocol basis and communication protocol between the vehicle-mounted video terminal and the video platform in the satellite positioning system of the road transport vehicle, the code-stream communication between the audio-video stream server and the client playing software, the communication protocol basis, communication protocol flow, constant definition, protocol data volume format between the video platforms. This standard is applicable to the transmission of audio-video data between the vehicle-mounted video terminal of the satellite positioning system of the road transport vehicle and the enterprise video surveillance platform, as well as the exchange and sharing of audio-video resources between different video platforms.**

MACHINE LEARNING

A BAYESIAN AND OPTIMIZATION PERSPECTIVE

Academic Press **Machine Learning: A Bayesian and Optimization Perspective, 2nd edition, gives a unified perspective on machine learning by covering both pillars of supervised learning, namely regression and classification. The book starts with the basics, including mean square, least squares and maximum likelihood methods, ridge regression, Bayesian decision theory classification, logistic regression, and decision trees. It then progresses to more recent techniques, covering sparse modelling methods, learning in reproducing kernel Hilbert spaces and support vector machines, Bayesian inference with a focus on the EM algorithm and its approximate inference variational versions, Monte Carlo methods, probabilistic graphical models focusing on Bayesian networks, hidden Markov models and particle filtering. Dimensionality reduction and latent variables modelling are also considered in depth. This palette of techniques concludes with an extended chapter on neural networks and deep learning architectures. The book also covers the fundamentals of statistical parameter estimation, Wiener and Kalman filtering, convexity and convex optimization, including a chapter on stochastic approximation and the gradient descent family of algorithms, presenting related online learning techniques as well as concepts and algorithmic versions for distributed optimization. Focusing on the**

physical reasoning behind the mathematics, without sacrificing rigor, all the various methods and techniques are explained in depth, supported by examples and problems, giving an invaluable resource to the student and researcher for understanding and applying machine learning concepts. Most of the chapters include typical case studies and computer exercises, both in MATLAB and Python. The chapters are written to be as self-contained as possible, making the text suitable for different courses: pattern recognition, statistical/adaptive signal processing, statistical/Bayesian learning, as well as courses on sparse modeling, deep learning, and probabilistic graphical models. New to this edition: Complete re-write of the chapter on Neural Networks and Deep Learning to reflect the latest advances since the 1st edition. The chapter, starting from the basic perceptron and feed-forward neural networks concepts, now presents an in depth treatment of deep networks, including recent optimization algorithms, batch normalization, regularization techniques such as the dropout method, convolutional neural networks, recurrent neural networks, attention mechanisms, adversarial examples and training, capsule networks and generative architectures, such as restricted Boltzman machines (RBMs), variational autoencoders and generative adversarial networks (GANs). Expanded treatment of Bayesian learning to include nonparametric Bayesian methods, with a focus on the Chinese restaurant and the Indian buffet processes. Presents the physical reasoning, mathematical modeling and algorithmic implementation of each method Updates on the latest trends, including sparsity, convex analysis and optimization, online distributed algorithms, learning in RKH spaces, Bayesian inference, graphical and hidden Markov models, particle filtering, deep learning, dictionary learning and latent variables modeling Provides case studies on a variety of topics, including protein folding prediction, optical character recognition, text authorship identification, fMRI data analysis, change point detection, hyperspectral image unmixing, target localization, and more

ESSENTIALS OF STOCHASTIC PROCESSES

Springer **Building upon the previous editions, this textbook is a first course in stochastic processes taken by undergraduate and graduate students (MS and PhD students from math, statistics, economics, computer science, engineering, and finance departments) who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and option pricing. One can only learn a subject by seeing it in action, so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader's understanding. Drawing from teaching experience and student feedback, there are many new examples and problems with solutions that use TI-83 to eliminate the tedious details of solving linear equations by hand, and the collection of exercises is much improved, with many more biological examples. Originally included in**

previous editions, material too advanced for this first course in stochastic processes has been eliminated while treatment of other topics useful for applications has been expanded. In addition, the ordering of topics has been improved; for example, the difficult subject of martingales is delayed until its usefulness can be applied in the treatment of mathematical finance.

SIGNAL CODING AND PROCESSING

Cambridge University Press **A comprehensive introduction to the complex fields of signal coding and signal processing.**

IMAGE AND VIDEO RETRIEVAL

INTERNATIONAL CONFERENCE, CIVR ... : PROCEEDINGS

IMAGE AND VIDEO COMPRESSION FOR MULTIMEDIA ENGINEERING

FUNDAMENTALS, ALGORITHMS, AND STANDARDS

CRC Press **Advanced technologies have increased demands for visual information and higher quality video frames, as with 3-D movies, games, and HDTV. This taxes the available technologies and creates a gap between the huge amount of visual data required for multimedia applications and the still-limited hardware capabilities. Image and Video Compression for Multimedia Engineering bridges the gap with concise, authoritative information on video and image coding. The tutorial provides a solid, comprehensive understanding of the fundamentals and algorithms of coding and details all of the relevant international coding standards. It presents recent findings on defining methods for generating high quality video bitstreams. The authors present recent research results and cover emerging technologies. With the growing popularity of the applications that use large amounts of visual data, image and video coding is an active and dynamic field. Coverage of both image and video compression in this book yields a unique, self-contained reference, appropriate for all related professions. Image and Video Compression for Multimedia Engineering builds a basis for future study, research, and development.**