# Low Bitrate

Marcus Barkowsky

**Low Bitrate Video Compression by Content Characterization** Marc Decombas,2014-05-15 The objective of this book is to find new methods for semantic video compatible with a traditional encoder like H.264/AVC. The main objective is to maintain the semantic and not the global quality. A target bitrate of 300 Kb/s has been fixed for defense and security applications. To do that, a complete chain of compression has been proposed. A study and new contributions on a spatio-temporal saliency model have been done to extract the important information in the scene. To reduce the bitrate, a resizing method named seam carving has been combined with the H.264/AVC encoder. Also, a metric combining SIFT points and SSIM has been created to measure the quality of objects without being disturbed by less important areas containing mostly artifacts. A database that can be used for testing the saliency model but also for video compression has been proposed, containing sequences with their manually extracted binary masks. All the different approaches have been thoroughly validated by different tests. An extension of this work on video summary application has also been proposed.

**Ultra Low Bit-Rate Speech Coding** V. Ramasubramanian,Harish Doddala,2014-10-24 Ultra Low Bit-Rate Speech Coding focuses on the specialized topic of speech coding at very low bit-rates of 1 Kbits/sec and less, particularly at the lower ends of this range, down to 100 bps. The authors set forth the fundamental results and trends that form the basis for such ultra low bit-rates to be viable and provide a comprehensive overview of various techniques and systems in literature to date, with particular attention to their work in the paradigm of unit-selection based segment quantization. The book is for research students, academic faculty and researchers, and industry

practitioners in the areas of speech processing and speech coding.

*Variable Rate Transmission in Motion-compensated Very Low Bitrate Video* Debra Lynn Emmons,1993

Subjective and Objective Video Quality Measurement in Low-Bitrate Multimedia Scenarios Marcus Barkowsky,2009

**Computer Vision - ACCV 2012 Workshops** Jong-Il Park,Junmo Kim,2013-03-27 The two volume set, consisting of LNCS 7728 and 7729, contains the carefully reviewed and selected papers presented at the nine workshops that were held in conjunction with the 11th Asian Conference on Computer Vision, ACCV 2012, in Daejeon, South Korea, in November 2012. From a total of 310 papers submitted, 78 were selected for presentation. LNCS 7728 contains the papers selected for the International Workshop on Computer Vision with Local Binary Pattern Variants, the Workshop on Computational Photography and Low-Level Vision, the Workshop on Developer-Centered Computer Vision, and the Workshop on Background Models Challenge. LNCS 7729 contains the papers selected for the Workshop on e-Heritage, the Workshop on Color Depth Fusion in Computer Vision, the Workshop on Face Analysis, the Workshop on Detection and Tracking in Challenging Environments, and the International Workshop on Intelligent Mobile Vision.

**Motion Estimation for Very Low Bitrate Video Coding** Fernando José Pimentel Lopes,2002

**Effective Video Coding for Multimedia Applications** Sudhakar Radhakrishnan,2011-04-26 Information has become one of the most valuable assets in the modern era. Within the last 5-10 years, the demand for multimedia applications has increased enormously. Like many other recent developments, the materialization of image and video encoding is due to the contribution from major areas like good

network access, good amount of fast processors e.t.c. Many standardization procedures were carrried out for the development of image and video coding. The advancement of computer storage technology continues at a rapid pace as a means of reducing storage requirements of an image and video as most situation warrants. Thus, the science of digital video compression/coding has emerged. This storage capacity seems to be more impressive when it is realized that the intent is to deliver very high quality video to the end user with as few visible artifacts as possible. Current methods of video compression such as Moving Pictures Experts Group (MPEG) standard provide good performance in terms of retaining video quality while reducing the storage requirements. Many books are available for video coding fundamentals.This book is the research outcome of various Researchers and Professors who have contributed a might in this field. This book suits researchers doing their research in the area of video coding.The understanding of fundamentals of video coding is essential for the reader before reading this book. The book revolves around three different challenges namely (i) Coding strategies (coding efficiency and computational complexity), (ii) Video compression and (iii) Error resilience. The complete efficient video system depends upon source coding, proper inter and intra frame coding, emerging newer transform, quantization techniques and proper error concealment.The book gives the solution of all the challenges and is available in different sections.

Research Anthology on Artificial Intelligence Applications in Security Management Association, Information Resources,2020-11-27 As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online

networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered along the way. This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

*Noiseless Steganography* Abdelrahman Desoky,2016-04-19 Among the features that make Noiseless Steganography: The Key to Covert Communications a first of its kind: The first to comprehensively cover

Linguistic SteganographyThe first to comprehensively cover Graph SteganographyThe first to comprehensively cover Game SteganographyAlthough the goal of steganography is to prevent adversaries from suspe

Digital Radio Systems on a Chip Charles Chien,2007-05-08 This book focuses on a specific engineering problem that is and will continue to be important in the forth-coming information age: namely, the need for highly integrated radio systems that can be embedded in wireless devices for various applications, including portable mobile multimedia wireless communications, wireless appliances, digital cellular, and digital cordless. Traditionally, the design of radio IC's involves a team of engineers trained in a wide range of fields that include networking, communication systems, radio propagation, digital/analog circuits, RF circuits, and process technology. However as radio IC's become more integrated, the need for a diverse skill set and knowledge becomes essential for professionals as well as students to broaden beyond their trained area of expertise and to become proficient in related areas. The key to designing an optimized, economical solution for radio systems on a chip hinges on the designer's thorough understanding of the complex trade-offs from communication systems down to circuits. To acquire the insight and understanding of the complex system and circuit trade-offs, a designer must digest volumes of books covering diverse topics, such as communications theory, radio propagation, and digital/analog/RF circuits. While books are available today that cover the individual areas, they tend to be narrowly focused and do not provide the necessary insight in the specific problem of integrating a complete radio system on a chip.

Network and System Security Li Xu,Elisa Bertino,Yi

Mu,2012-11-19 This book constitutes the refereed proceedings of the 6th International Conference on Network and System Security, NSS 2012, held in Wuyishan, Fujian, China, in November 2012. The 39 revised full papers presented were carefully reviewed and selected from 173 submissions. The papers cover the following topics: network security, system security, public key cryptography, privacy, authentication, security analysis, and access control.

**Intelligent Multimedia Communication: Techniques and Applications** Chang Wen Chen,Zhu Li,Shiguo Lian,2011-07-06 Multimedia data are used more and more widely in human being's life, e.g., videoconferencing, visual telephone, IPTV, etc. Nearly most of the applications need multimedia transmission techniques that send multimedia data from one side to another side and keep the properties of efficiency, robustness and security. Here, the efficiency denotes the time cost of transmission operations, the robustness denotes the ability to survive transmission errors or noises, and the security denotes the protection of the transmitted media content. Recently, various intelligent or innovative techniques are invented, which bring vast performance improvements to practical applications. For example, such content transmission techniques as p2p, sensor network and ad hoc network are constructed, which adaptively use the peers' properties to improve the network's resources. Multimedia adaptation techniques can adjust the multimedia data rate in order to compliant with the network's bandwidth. Scalable encryption techniques can generate the data stream that can be correctly decrypted after bit rate conversion. Ubiquitous multimedia services make the user share any kind of content anywhere. The book includes fourteen chapters highlighting current concepts, issues and emerging technologies. Distinguished scholars from many prominent research institutions

around the world contribute to the book. The book covers various aspects, including not only some fundamental knowledge and the latest key techniques, but also typical applications and open issues. For example, the covered topics include the present and future video coding standards, stereo and multiview coding techniques, free-viewpoint TV techniques, wireless broadcasting techniques, media streaming techniques, wireless media transmission techniques and systems, and User-Generated Content sharing.

*Dimension-based Quality Modeling of Transmitted Speech* Marcel Wältermann,2013-01-03 In this book, speech transmission quality is modeled on the basis of perceptual dimensions. The author identifies those dimensions that are relevant for today's public-switched and packet-based telecommunication systems, regarding the complete transmission path from the mouth of the speaker to the ear of the listener. Both narrowband (300-3400 Hz) as well as wideband (50-7000 Hz) speech transmission is taken into account. A new analytical assessment method is presented that allows the dimensions to be rated by non-expert listeners in a direct way. Due to the efficiency of the test method, a relatively large number of stimuli can be assessed in auditory tests. The test method is applied in two auditory experiments. The book gives the evidence that this test method provides meaningful and reliable results. The resulting dimension scores together with respective overall quality ratings form the basis for a new parametric model for the quality estimation of transmitted speech based on the perceptual dimensions. In a two-step model approach, instrumental dimension models estimate dimension impairment factors in a first step. The resulting dimension estimates are combined by a Euclidean integration function in a second step in order to provide an estimate of the total impairment.

Wireless Broadband Networks David T. Wong,Peng-Yong
Kong,Ying-Chang Liang,Kee C. Chua,2009-04-01 An introduction to
theories and applications in wireless broadband networks As wireless
broadband networks evolve into future generation wireless networks,
it's important for students, researchers, and professionals to have a solid
understanding of their underlying theories and practical applications.
Divided into two parts, the book presents: Enabling Technologies for
Wireless Broadband Networks—orthogonal frequency-division
multiplexing and other block-based transmissions; multi-input/multi-
output antenna systems; ultra-wideband; medium access control;
mobility resource management; routing protocols for multi-hop
wireless broadband networks; radio resource management for wireless
broadband networks; and quality of service for multimedia services
Systems for Wireless Broadband Networks—long-term evolution
cellular networks; wireless broadband networking with WiMax;
wireless local area networks; wireless personal area networks; and
convergence of networks Each chapter begins with an introduction
and ends with a summary, appendix, and a list of resources for readers
who would like to explore the subjects in greater depth. The book is
an ideal resource for researchers in electrical engineering and
computer science and an excellent textbook for electrical engineering
and computer science courses at the advanced undergraduate and
graduate levels.

*Advanced Intelligent Computing Technology and Applications*
De-Shuang Huang,Prashan Premaratne,Baohua Jin,Boyang Qu,Kang-
Hyun Jo,Abir Hussain,2023-07-30 This three-volume set of LNCS
14086, LNCS 14087 and LNCS 14088 constitutes - in conjunction with
the double-volume set LNAI 14089-14090- the refereed proceedings
of the 19th International Conference on Intelligent Computing, ICIC

2023, held in Zhengzhou, China, in August 2023. The 337 full papers of the three proceedings volumes were carefully reviewed and selected from 828 submissions. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was Advanced Intelligent Computing Technology and Applications. Papers that focused on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

**Wireless Algorithms, Systems, and Applications** Xinbing Wang,Rong Zheng,Tao Jing,Kai Xing,2012-08-10 This book constitutes the refereed proceedings of the 7th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2012, held in Yellow Mountains, China, in August 2012. The 24 revised full papers presented together with 32 invited papers were carefully reviewed and selected from 116 submissions. The papers cover a wide range of topics such as cognitive radio networks, cyber-physical network systems, mobile handset networking systems, underwater and radar wireless networks, and wireless and mobile security.

**Video Data Management and Information Retrieval** Sagarmay Deb,2005-01-01 This book combines the two important areas of research within computer technology and presents them in comprehensive, easy to understand manner. Ideal for graduates and under-graduates, as well as researchers working in either video data management or information retrieval, it takes an in depth look at

many relevant topics within both video data management and information retrieval. In addition to dissecting those issues, it also provides a big picture view of each topic.

**Passive and Active Measurement** Oliver Hohlfeld,Giovane Moura,Cristel Pelsser,2022-03-21 This book constitutes the proceedings of the 23rd International Conference on Passive and Active Measurement, PAM 2022, held in March 2022. Due to COVID-19 pandemic, the conference was held virtually. The 15 full papers and 15 short papers presented in this volume were carefully reviewed and selected from 62 submissions. The papers present emerging and early-stage research in network measurements – work that seeks to better understand complex, real-world networked systems and offer critical empirical foundations and support to network research.

*MultiMedia Modeling* Laurent Amsaleg,Gylfi Þór Guðmundsson,Cathal Gurrin,Björn Þór Jónsson,Shin'ichi Satoh,2016-12-30 The two-volume set LNCS 10132 and 10133 constitutes the thoroughly refereed proceedings of the 23rd International Conference on Multimedia Modeling, MMM 2017, held in Reykjavik, Iceland, in January 2017. Of the 149 full papers submitted, 36 were selected for oral presentation and 33 for poster presentation; of the 34 special session papers submitted, 24 were selected for oral presentation and 2 for poster presentation; in addition, 5 demonstrations were accepted from 8 submissions, and all 7 submissions to VBS 2017. All papers presented were carefully reviewed and selected from 198 submissions. MMM is a leading international conference for researchers and industry practitioners for sharing new ideas, original research results and practical development experiences from all MMM related areas, broadly falling into three categories: multimedia content analysis; multimedia signal processing

and communications; and multimedia applications and services.

**Image Analysis** Arnt-Borre Salberg,Jon Yngve Hardeberg,Robert Jenssen,2009-07-14 This volume contains the papers presented at the Scandinavian Conference on Image Analysis, SCIA 2009, which was held at the Radisson SAS Scandinavian Hotel, Oslo, Norway, June 15–18. SCIA 2009 was the 16th in the biennial series of conferences, which has been organized in turn by the Scandinavian countries Sweden, Finland, D- mark and Norway since 1980. The event itself has always attracted participants and author contributions from outside the Scandinavian countries, making it an international conference. Theconferenceincludedafulldayoftutorialsand?vekeynotetalksprovided by world-renowned experts. The program covered high-quality scienti?c cont- butions within image analysis, human and action analysis, pattern and object recognition,colorimagingandquality,medicalandbiomedicalapplications,face andheadanalysis,computer vision,andmultispectralcoloranalysis. The papers werecarefully selected based on at least two reviews. Among 154 submissions 79 wereaccepted,leadingtoanacceptancerateof51%. SinceSCIAwasarrangedas a single-track event, 30 papers were presented in the oral sessions and 49 papers were presented in the poster sessions. A separate session on multispectral color science was organized in cooperation with the 11th Symposium of Multispectral Color Science (MCS 2009). Since 2009 was proclaimed the "International Year of Astronomy" by the United Nations General Assembly, the conference also contained a session on the topic "Imageand PatternAnalysis in Astronomyand Astrophysics. " SCIA has a reputation of having a friendly environment, in addition to hi-quality scienti?c contributions. We focused on maintaining this

reputation, by designing a technical and social program that we hope the participants found interesting and inspiring for new research ideas and network extensions. We thank the authors for submitting their valuable work to SCIA.

The Enigmatic Realm of **Low Bitrate**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Low Bitrate** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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## Low Bitrate Introduction

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