



# **NEXT-GENERATION VIDEO CODING AND STREAMING**

**BENNY BING**

**WILEY**

# Next Generation Video Coding And Streaming

**Garrison Cavell**



## **Next Generation Video Coding And Streaming:**

**Next-Generation Video Coding and Streaming** Benny Bing, 2015-10-05 Reviews the new High Efficiency Video Coding HEVC standard and advancements in adaptive streaming technologies for use in broadband networks and the Internet This book describes next generation video coding and streaming technologies with a comparative assessment of the strengths and weaknesses Specific emphasis is placed on the H 265 HEVC video coding standard and adaptive bit rate video streaming In addition to evaluating the impact of different types of video content and powerful feature sets on HEVC coding efficiency the text provides an in depth study on the practical performance of popular adaptive streaming platforms and useful tips for streaming optimization Readers will learn of new over the top OTT online TV advancements the direction of the broadband telecommunications industry and the latest developments that will help keep implementation costs down and maximize return on infrastructure investment Reviews the emerging High Efficiency Video Coding HEVC standard and compares its coding performance with the MPEG 4 Advanced Video Coding AVC and MPEG 2 standards Provides invaluable insights into the intra and inter coding efficiencies of HEVC such as the impact of hierarchical block partitioning and new prediction modes Evaluates the performance of the Apple and Microsoft adaptive streaming platforms and presents innovative techniques related to aggregate stream bandwidth prediction duplicate chunk Includes end of chapter homework problems and access to instructor slides Next Generation Video Coding and Streaming is written for students researchers and industry professionals working in the field of video communications Benny Bing has worked in academia for over 20 years He has published over 80 research papers and 12 books and has 6 video patents licensed to industry He has served as a technical editor for several IEEE journals and an IEEE Communications Society Distinguished lecturer He also received the National Association of Broadcasters NAB Technology Innovation Award for demonstrations of advanced media technologies

*National Association of Broadcasters Engineering Handbook* Graham A. Jones, David H. Layer, Thomas G. Osenkowsky, 2013-04-26 The NAB Engineering Handbook provides detailed information on virtually every aspect of the broadcast chain from news gathering program production and postproduction through master control and distribution links to transmission antennas RF propagation cable and satellite Hot topics covered include HD Radio HDTV 2 GHz broadcast auxiliary services EAS workflow metadata digital asset management advanced video and audio compression audio and video over IP and Internet broadcasting A wide range of related topics that engineers and managers need to understand are also covered including broadcast administration FCC practices technical standards security safety disaster planning facility planning project management and engineering management Basic principles and the latest technologies and issues are all addressed by respected professionals with first hand experience in the broadcast industry and manufacturing This edition has been fully revised and updated with 104 chapters and over 2000 pages The Engineering Handbook provides the single most comprehensive and accessible resource available for engineers and others working in production postproduction

networks local stations equipment manufacturing or any of the associated areas of radio and television

**Connected Media in the Future Internet Era** Ahmet Kondo, Tasos Dagiuklas, 2016-10-08 This book describes recent innovations in 3D media and technologies with coverage of 3D media capturing processing encoding and adaptation networking aspects for 3D Media and quality of user experience QoE The contributions are based on the results of the FP7 European Project ROMEO which focuses on new methods for the compression and delivery of 3D multi view video and spatial audio as well as the optimization of networking and compression jointly across the future Internet The delivery of 3D media to individual users remains a highly challenging problem due to the large amount of data involved diverse network characteristics and user terminal requirements as well as the user's context such as their preferences and location As the number of visual views increases current systems will struggle to meet the demanding requirements in terms of delivery of consistent video quality to fixed and mobile users ROMEO will present hybrid networking solutions that combine the DVB T2 and DVB NGH broadcast access network technologies together with a QoE aware Peer to Peer P2P distribution system that operates over wired and wireless links Live streaming 3D media needs to be received by collaborating users at the same time or with imperceptible delay to enable them to watch together while exchanging comments as if they were all in the same location This book is the last of a series of three annual volumes devoted to the latest results of the FP7 European Project ROMEO The present volume provides state of the art information on 3D multi view video spatial audio networking protocols for 3D media P2P 3D media streaming and 3D Media delivery across heterogeneous wireless networks among other topics Graduate students and professionals in electrical engineering and computer science with an interest in 3D Future Internet Media will find this volume to be essential reading

**Quality of Service Over Next-generation Data Networks** Mohammed Atiquzzaman, Mahbub Hassan, 2001

**National Association of Broadcasters Engineering Handbook** Garrison Cavell, 2017-07-28 The NAB Engineering Handbook is the definitive resource for broadcast engineers It provides in depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna New topics include Ultra High Definition Television Internet Radio Interfacing and Streaming ATSC 3.0 Digital Audio Compression Techniques Digital Television Audio Loudness Management and Video Format and Standards Conversion Important updates have been made to incumbent topics such as AM Shortwave FM and Television Transmitting Systems Studio Lighting Cameras and Principles of Acoustics The big picture comprehensive nature of the NAB Engineering Handbook will appeal to all broadcast engineers everyone from broadcast chief engineers who need expanded knowledge of all the specialized areas they encounter in the field to technologists in specialized fields like IT and RF who are interested in learning about unfamiliar topics Chapters are written to be accessible and easy to understand by all levels of engineers and technicians A wide range of related topics that engineers and technical managers need to understand are covered including broadcast documentation FCC practices technical standards security safety disaster planning facility

planning project management and engineering management      **H.264 and MPEG-4 Video Compression** Iain E. Richardson, 2004-02-06 Following on from the successful MPEG 2 standard MPEG 4 Visual is enabling a new wave of multimedia applications from Internet video streaming to mobile video conferencing The new H 264 Advanced Video Coding standard promises impressive compression performance and is gaining support from developers and manufacturers The first book to cover H 264 in technical detail this unique resource takes an application based approach to the two standards and the coding concepts that underpin them Presents a practical step by step guide to the MPEG 4 Visual and H 264 standards for video compression Introduces the basic concepts of digital video and covers essential background material required for an understanding of both standards Provides side by side performance comparisons of MPEG 4 Visual and H 264 and advice on how to approach and interpret them to ensure conformance Examines the way that the standards have been shaped and developed discussing the composition and procedures of the VCEG and MPEG standardisation groups Focussing on compression tools and profiles for practical multimedia applications this book decodes the standards enabling developers researchers engineers and students to rapidly get to grips with both H 264 and MPEG 4 Visual Dr Iain Richardson leads the Image Communication Technology research group at the Robert Gordon University in Scotland and is the author of over 40 research papers and two previous books on video compression technology      *Next Generation Networks*, 2000      **Wiley Encyclopedia of Telecommunications** John G. Proakis, 2003      **Wiley Encyclopedia of Telecommunications, Volume 5** John G. Proakis, 2003 Contains 275 tutorial articles focused on modern telecommunications topics The contents include articles on communication networks source coding and decoding channel coding and decoding modulation and demodulation optical communications satellite communications underwater acoustic communications radio propagation antennas multiuser communications magnetic storage systems and a variety of standards V 1 p v      **DCC 2002** IEEE Computer Society, 2002 Drawn from the presentations at the April 2002 conference in Snowbird Utah 44 technical papers and 40 posters cover topics like image recovery image compression zero error source coding re quantization searching compressed data video transmission precise average redundancy methods of compression n channel multiple descriptors and bit allocation Black and white illustrations support the text and abstracts are supplied for the full papers Only the authors are included in the index Annotation copyrighted by Book News Inc Portland OR      *Proceedings*, 2001      **Proceedings, ACM Multimedia ...**, 2002      **EDN**, 2005      **Annual Report** Toshiba, Kabushiki Kaisha, 1999      **IEEE Workshop on Signal Processing Systems**, 2002      *Proceedings of the ... ACM International Workshop on Wireless Multimedia Networking and Performance Modeling*, 2005      **An Engineering Approach to Computer Networking** Srinivasan Keshav, Srinivsan Keshav, 1997 Taking a unique engineering approach that will help readers gain a grasp of not just how but also why networks work the way they do this book includes the very latest network technology including the first practical treatment of Asynchronous Transfer Mode ATM The CD ROM contains an invaluable network simulator      **Visual Communications and Image**

**Processing '97** ,1997      **Mobile Computing** ,2009 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher      **Proceedings of the Ninth International Symposium on Consumer Electronics 2005 (ISCE 2005), 14-16 June 2005, Macau SAR** Robin Bradbeer,Y. H. Shum,2005 Issues for 1998 2003 2008 2011 2014 cataloged as a serial in LC

## Decoding **Next Generation Video Coding And Streaming**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Next Generation Video Coding And Streaming**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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