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Bandwidth Extension of Speech Using Perceptual Criteria - Visar Berisha 2022-06-01

Bandwidth extension of speech is used in the International Telecommunication Union G.729.1 standard in which the narrowband bitstream is combined with quantized high-band parameters. Although this system produces high-quality wideband speech, the additional bits used to represent the high band can be further reduced. In addition to the algorithm used in the G.729.1 standard, bandwidth extension methods based on spectrum prediction have also been proposed. Although these algorithms do not require additional bits, they perform poorly when the correlation between the low and the high band is weak. In this book, two wideband speech coding algorithms that rely on bandwidth extension are developed. The algorithms operate as wrappers around existing narrowband compression schemes. More specifically, in these algorithms, the low band is encoded using an existing toll-quality narrowband system, whereas the high band is generated using the proposed extension techniques. The first method relies only on transmitted high-band information to generate the wideband speech. The second algorithm uses a constrained minimum mean square error estimator that combines transmitted high-band envelope information with a predictive scheme driven by narrowband features. Both algorithms make use of novel perceptual models based on loudness that determine optimum quantization strategies for wideband recovery and synthesis. Objective and subjective evaluations reveal that the proposed system performs at a lower average bit rate while improving speech quality when compared to other similar algorithms. [Semidigital Clock-data Recovery System and Bandwidth Extension for ESD-protected High-speed IC Circuits](#) -

[Broad Bandwidth and High Dimensional Quantum Memory Based on Atomic Ensembles](#) - Dong-Sheng Ding 2017-12-26

This thesis presents an experimental study of quantum memory based on cold atomic ensembles and discusses photonic entanglement. It mainly focuses on experimental research on storing orbital angular momentum, and introduces readers to methods for storing a single photon carried by an image or an entanglement of spatial modes. The thesis also discusses the storage of photonic entanglement using the Raman scheme as a step toward implementing high-bandwidth quantum memory. The storage of photonic entanglement is central to achieving long-distance quantum communication based on quantum repeaters and scalable linear optical quantum computation. Addressing this key issue, the findings presented in the thesis are very promising with regard to future high-speed and high-capacity quantum communications.

[High Bandwidth Optical Processing of Array Antenna Data](#) - Stanford University. Department of Electrical

The Army's Bandwidth Bottleneck - 2003

The Race for Bandwidth - Cary Lu 1998

Bandwidth how much information you can move from one place to another and how fast you can move it is the lifeblood of digital communications. "The Race for Bandwidth: Understanding Data Transmission offers solid guidance to business managers as they make decisions about bandwidth for the networking future of their organizations. The book builds a framework for understanding bandwidth, offering concise, clear information about such key issues as types and sources of bandwidth, identifying and determining costs, and planning ahead.

Bandwidth Reduction of Stimulated Brillouin Scattering and Applications in Optical Communication - Stefan Preußler 2016-10-12

Stimulated Brillouin scattering is the most dominant nonlinear effect in single mode optical fibers. Its unique spectral characteristics, especially the narrow bandwidth of 20 - 30 MHz enable numerous applications, including optical spectrum analysis, delay and storage of light, distributed sensing and optical signal processing. Most of them would benefit from a reduction of the Brillouin gain bandwidth. This dissertation demonstrates several methods for significant reduction of the Brillouin gain bandwidth, including a multi-stage system, the superposition of the gain with two losses as well as the utilization of a frequency domain aperture. Thereby the Brillouin gain bandwidth can be reduced significantly down to 3 MHz, which equals 15% of the normal bandwidth. Furthermore, the reduced Brillouin gain bandwidth is employed for various applications. First, the resolution and the dynamic range of a Brillouin based optical spectrum analyzer are enhanced significantly. Second, a new technique for the storage of optical data packets, called Quasi-Light-Storage, is introduced and the maximum storage time is increased to 160 ns for 8 bit data packets. Finally, Brillouin scattering is used for the processing of optical frequency combs, leading to the generation high quality of mm- and THz-waves, as well as almost ideal sinc-shaped Nyquist pulse sequences.

Bandwidth Extension of Speech Signals - Bernd Iser 2008-07-15

Bandwidth Extension of Speech Signals describes the theory and methods for quality enhancement of clean speech signals and distorted speech signals such as those that have undergone a band limitation, for instance, in a telephone network. Problems and the respective solutions are discussed for the different approaches. The different approaches are evaluated and a real-time implementation of the most promising approach is presented. The book includes topics related to speech coding, pattern- / speech recognition, speech enhancement, statistics and digital signal processing in general.

Bandwidth-Efficient Digital Modulation with Application to Deep Space Communications - Marvin K. Simon 2005-03-04

An important look at bandwidth-efficient modulations with applications to today's Space program Based on research and results obtained at the California Institute of Technology's Jet Propulsion Laboratory, this timely book defines, describes, and then delineates the performance (power and bandwidth) of digital communication systems that incorporate a wide variety of bandwidth-efficient modulations appropriate for the design and implementation of space communications systems. The author compares the performance of these systems in the presence of a number of practical (non-ideal) transmitter and receiver characteristics such as modulator and phase imbalance, imperfect carrier synchronization, and transmitter nonlinearity. Although the material focuses on the deep space applications developed at the Jet Propulsion Laboratory, the presentation is sufficiently broad as to be applicable to a host of other applications dealing with RF communications. An important contribution to the scientific literature, *Bandwidth-Efficient Digital Modulation with Application to Deep Space Communications* * was commissioned by the JPL Deep Space Communications and Navigation System Center of Excellence *

highlights many NASA-funded technical contributions pertaining to deep space communications systems * is a part of the prestigious Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics, communications, and related fields. It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state-of-the-art knowledge in key technologies.

Bandwidth - Angus Morrison 2010-10

"A great storyline with compelling characters that capture the essence of the era." -- Joseph Menn, author of *Fatal System Error: The Hunt for the New Crime Lords Who Are Bringing Down the Internet*. Cyber-Security correspondent for the Financial Times. "Morrison's experience and passion for storytelling paint the pages - launching the reader on a modern journey of human contradiction and adventure." -- Dylan Ratigan, MSNBC "An ensnaring tale with unexpected touches of humor. Morrison nails it." -- Kourosh Karimkhany, TPM Media *Bandwidth* captures the two dominant threads of the first decade of the 21st century - greed and terrorism. Several years after the dot com funeral pyre, Hayden Campbell - a former CIA operative turned speechwriter - finds himself working for the sixth richest man in the world, Aaron Cannondale. From his perch, Hayden watches as a Dutch student discovers a technology to send voice, video and data through Europe's municipal water systems. Standing in the way are European technocrats, the Russian mafia, a Swiss banker and a new breed of terrorist intent on wreaking havoc on the West. *Bandwidth* takes us from the stoops of Brooklyn, to Moscow and Zurich, to the bike paths of Amsterdam and the backrooms of Brussels and Frankfurt, to Afghanistan and the hazy diwans of Yemen. Dazzled by his new boss but harboring a soft spot for the Agency, Hayden allows himself to be pulled back in for one more run -- a run that reminds him that people aren't what they seem, a run that reinforces his belief that greed has no sell-by date. Angus Morrison has been a Pulitzer-nominated financial journalist for Bloomberg News, and has written for The International Herald Tribune, The New York Observer and the Globalist. He has been a speechwriter for the U.S. Secretary of State and IBM's senior executive suite, and has served as a Senior Policy Advisor at the U.S. State Department. He lives with his wife and son in Alexandria, Virginia.

A Column-Generation and Branch-and-Cut Approach to the Bandwidth-Packing Problem -

Fiber Bandwidth Glut Fact or Fiction? -

Measurement of Optical Fiber Bandwidth in the Time Domain - Douglas L. Franzen 1980

The Effect of Bandwidth on Telerobot System Performance - Mark Uebel 1991

Satellite communications strategic approach needed for DOD's procurement of commercial satellite bandwidth. -

Bandwidth needs Analysis of the RBOCs' Advanced Access Architectures: FTTP and FTTN -

Audio Bandwidth Extension - Erik Larsen 2005-04-08

Bandwidth extension (BWE) refers to various methods that increase either the perceived or real frequency spectrum (bandwidth) of audio signals. Such frequency extension is desirable if at some point the frequency content of the audio signal has been reduced, as can happen for example during recording, transmission or reproduction. This volume, significant in dealing exclusively with BWE, discusses applications to music and speech and places particular emphasis on signal processing techniques. Presents an all-encompassing approach to BWE by covering theory, applications and algorithms Reviews important concepts in psychoacoustics, signal processing and loudspeaker theory

Develops the theory and implementation of BWE applied to low-frequency sound reproduction, perceptually coded audio, speech and noise abatement Includes a BWE patent overview Audio Bandwidth Extension pulls together recent developments in to a single volume and presents a coherent framework to the reader. Such an approach will have instant appeal to engineers, specialists, researchers and postgraduate students in the fields of audio, signal processing and speech.

Picture Bandwidth Compression - Thomas S. Huang 1972

How to Accelerate Your Internet - Rob Flickenger 2006-10-01

High-Speed Networking - James P. G. Sterbenz 2002-03-14

Leading authorities deliver the commandments for designing high-speed networks There are no end of books touting the virtues of one or another high-speed networking technology, but until now, there were none offering networking professionals a framework for choosing and integrating the best ones for their organization's networking needs. Written by two world-renowned experts in the field of high-speed network design, this book outlines a total strategy for designing high-bandwidth, low-latency systems. Using real-world implementation examples to illustrate their points, the authors cover all aspects of network design, including network components, network architectures, topologies, protocols, application interactions, and more.

Bandwidth Efficient Coding - John B. Anderson 2017-03-03

This book addresses coding, a new solution to the major challenge of communicating more bits of information in the same radio spectrum. Explores concepts and new transmission methods that have arisen in the last 15 years Discusses the method of faster than Nyquist signaling Provides self-education resources by including design parameters and short MATLAB routines Bandwidth Efficient Coding takes a fresh look at classical information theory and introduces a different point of view for research and development engineers and graduate students in communication engineering and wireless communication.

Bandwidth and Efficiency Enhancement in Radio Frequency Power Amplifiers for Wireless Transmitters - Karun Rawat 2020-03-05

This book focuses on broadband power amplifier design for wireless communication. Nonlinear model embedding is described as a powerful tool for designing broadband continuous Class-J and continuous class F power amplifiers. The authors also discuss various techniques for extending bandwidth of load modulation based power amplifiers, such as Doherty power amplifier and Chireix outphasing amplifiers. The book also covers recent trends on digital as well as analog techniques to enhance bandwidth and linearity in wireless transmitters. Presents latest trends in designing broadband power amplifiers; Covers latest techniques for using nonlinear model embedding in designing power amplifiers based on waveform engineering; Describes the latest techniques for extending bandwidth of load modulation based power amplifiers such as Doherty power amplifier and Chireix outphasing amplifiers; Includes coverage of hybrid analog/digital predistortion as wideband solution for wireless transmitters; Discusses recent trends on on-chip power amplifier design with GaN /GaAs MMICs for high frequency applications.

High Speed and Wide Bandwidth Delta-Sigma ADCs - Muhammed Bolatkale 2014-05-27

This book describes techniques for realizing wide bandwidth (125MHz) over-sampled analog-to-digital converters (ADCs) in nano meter-CMOS processes. The authors offer a clear and complete picture of system level challenges and practical design solutions in high-speed Delta-Sigma modulators. Readers will be enabled to implement ADCs as continuous-time delta-sigma (CT $\Delta\Sigma$) modulators, offering simple resistive inputs, which do not require the use of power-hungry input buffers, as well as offering inherent anti-aliasing, which simplifies system integration. The authors focus on the design of high speed and wide-bandwidth $\Delta\Sigma$ M that make a step in bandwidth range which was previously only possible with Nyquist converters. More specifically, this book describes the stability, power efficiency and linearity

limits of $\Delta\Sigma$ M, aiming at a GHz sampling frequency.

The Effect of Bandwidth on Telerobot System Performance - Mark Uebel 1991

Theoretical Bandwidth Limitations in UHF Parametric Amplifiers and Converters - Stanford University Stanford Electronics Laboratories 1962

An Adaptive Internet Bandwidth Management Architecture - Jack Dietz 1997

Educator Bandwidth - Jane A. G. Kise 2022

"Being an educator is more stressful than ever, and these easy-to-use strategies and habits can help you reduce stress, avoid burnout, and regain lost time"--

High-Bandwidth Memory Interface - Chulwoo Kim 2013-10-27

This book provides an overview of recent advances in memory interface design at both the architecture and circuit levels. Coverage includes signal integrity and testing, TSV interface, high-speed serial interface including equalization, ODT, pre-emphasis, wide I/O interface including crosstalk, skew cancellation, and clock generation and distribution. Trends for further bandwidth enhancement are also covered.

Optical Fiber Characterization: Attenuation, frequency domain bandwidth, and radiation patterns - 1983

Integrated Wide-Bandwidth Current Sensing - Tobias Funk 2020-09-04

This book provides readers with a single-source reference to current sensing integrated circuit design. It is written in handbook style, including systematic guidelines and implementation examples. The authors focus on the implementation of wide-bandwidth current sensing on a single microchip, toward usage in applications such as sensing, control and optimization of the energy flow in growth areas like industrial electronics, renewable energies, smart grids, electromobility and the Internet of Things. Provides readers with a comprehensive, all-in-one source for current sensing integrated circuit design, including implementation examples; Discusses modeling and optimization of on-chip Rogowski coil and Hall sensor in both lateral and vertical orientation; Includes noise reduction techniques, such as auto-zeroing and chopping; Covers open-loop and closed-loop sensor front-end design; Presents the first on-chip current sensor with a planar coil placed besides a power line to measure internal signal currents and the first off-chip current sensor with a helix-shaped coil for external signal currents in the multi-MHz region.

Infinite Bandwidth - Eugene Gan 2010

Franciscan University of Steubenville Professor Eugene Gan authors this first-of-its-kind Catholic roadmap for the digital age: *Infinite Bandwidth: Encountering Christ in the Media*. He navigates you faithfully through the digital world, encouraging frustrated parents not to throw out cell phones, ban the Internet, chuck computers, or pitch portable media devices. That would be a mistake and believe it or not would be going against more than seven decades of Catholic teaching. From Church documents on social communications, Gan extracts seven principles or "media keys" of how to approach and use media. The Church and Gan say that we must enter into the modern day "Areopagus," the social and intellectual hub of ancient Athens where Paul preached to pagans, and use the media tools God has given us to make truth known and serve mankind. Cardinal John Patrick Foley says, "Frankly, I wish that such a book had existed when I was president of the Pontifical Council for Social Communications as a text which I could have recommended. The important thing, however, is that it exists now to provide a text, context, and challenge for those who wish to bring both Christian principles and professional excellence to their work in the media." Gan offers chapter after chapter of real-life experience of how to assess movies, games, and gadgets for you and your teens. Of how to judge the merits of a film like *Saving Private Ryan*, and what sets it apart from *Nightmare on Elm Street*. Can the one be acceptable viewing and the other not?

Definitely. And Gan details why. Infinite Bandwidth: Encountering Christ in the Media is way out front of the newest gizmo and will stay there thanks to its timeless principles that can be applied in all digital terrain, now and the future. Parents, educators, and students will put this book down with an entirely different attitude about the relationship between faith and media use.

Energy and Bandwidth-Efficient Wireless Transmission - Wei Gao 2017-02-10

This book introduces key modulation and predistortion techniques for approaching power and spectrum-efficient transmission for wireless communication systems. The book presents a combination of theoretical principles, practical implementations, and actual tests. It focuses on power and spectrally efficient modulation and transmission techniques in the portable wireless communication systems, and introduces currently developed and designed RF transceivers in the latest wireless markets. Most materials, design examples, and design strategies used are based on the author's two decades of work in the digital communication fields, especially in the areas of the digital modulations, demodulations, digital signal processing, and linearization of power amplifiers. The applications of these practical products and equipment cover the satellite communications on earth station systems, microwave communication systems, 2G GSM and 3G WCDMA mobile communication systems, and 802.11 WLAN systems.>

Bandwidth - Eliot Peper 2018

A rising star at a preeminent political lobbying firm, Dag Calhoun represents the world's most powerful technology and energy executives. But when a close brush with death reveals that the influence he wields makes him a target, impossible cracks appear in his perfect, richly appointed life. Like everyone else, Dag relies on his digital feed for everything--a feed that is as personal as it is pervasive, and may not be as private as it seems. As he struggles to make sense of the dark forces closing in on him, he discovers that activists are hijacking the feed to manipulate markets and governments. Going public would destroy everything he's worked so hard to build, but it's not just Dag's life on the line--a shadow war is coming, one that will secure humanity's future or doom the planet to climate catastrophe. Ultimately, Dag must decide the price he's willing to pay to change the world.

Bandwidth Allocation for Video under Quality of Service Constraints - Bushra Anjum 2015-01-20

We present queueing-based algorithms to calculate the bandwidth required for a video stream so that the three main Quality of Service constraints, i.e., end-to-end delay, jitter and packet loss, are ensured. Conversational and streaming video-based applications are becoming a major part of the everyday Internet usage. The quality of these applications (QoS), as experienced by the user, depends on three main metrics of the underlying network, namely, end-to-end delay, jitter and packet loss. These metrics are, in turn, directly related to the capacity of the links that the video traffic traverses from its source to destination. The main problem that this book addresses is how much bandwidth we should allocate on the path from source to destination of a video traffic flow such that the end-to-end delay, jitter and packet loss of the video packets are within some expected required bounds.

Low Complexity Methods for Bandwidth Efficient Communication - Ketan Narendra Patel 2002

Maximum Bandwidth - Dan Blacharski 1997

For anyone involved in choosing or implementing high-speed networks, this text presents the currently available networking options. Its aim is to help technical management prepare for the implementation, integration and support of such systems.

Optical Fiber Characterization: Backscatter time domain bandwidth, refracted near field, and interlaboratory comparisons - 1982

Local Bandwidth Selection for Kernel Estimates - Joan G. Staniswalis 1985

Bandwidth Recovery For Schools - Cia Verschelden 2020-11-17

Are students coming to your class lacking focus, having difficulty connecting with you and their peers,

falling behind, or acting out when you instinctively feel they could do better? Do you sometimes feel like you don't have the capacity as a teacher or school leader to give students the support they need to learn and thrive? This book makes the case that societal realities--such as poverty, racism, and social marginalization--result in depleted cognitive resources for students and for those who are trying to help them succeed. Each of us has a finite amount of mental bandwidth, the cognitive resources that are available for learning, development, work, taking care of ourselves and our families, and everything else we have to do. These "attentional resources" are not about how smart we are but about how much of our brain power is available to us for the task at hand. When bandwidth is taken up by the stress of persistent economic insecurity or the negative experiences of racism, classism, homophobia, religious intolerance, sexism, ableism, etc., there is less available for learning and growth. This is as true for young children and youth as for their parents and teachers. The first half of the book makes the case that poverty and these "differentisms" deplete the bandwidth of students, parents, and teachers. The second sets out concepts and strategies that help people recover the bandwidth they need to learn and thrive. Cia Verschelden describes strategies that can help students recover bandwidth, including acknowledging the "funds of knowledge" of students and their families, promoting growth mindsets, using reflective practices to build a sense of belonging for all students, fostering peer collaboration, and implementing restorative practices in lieu of punitive measures to deal with problematic behavior, as well as a rich selection of Ideas in Practice contributed by experienced teachers and school leaders. Cia recognizes that many teachers are working in schools with inadequate support systems and facilities and with scarce materials, and may be spending their often inadequate pay on school supplies for their classrooms and food for their hungry students. She offers practical ideas for creating more teacher-supportive systems and addresses how principals and administrators can harness teachers' ideas and energies to create inclusive and successful learning environments for all students. The book includes a case study of Rochester, New York - where the economy has been decimated with the closure of major employers - and how its financially strapped school system worked with colleagues at the University of Rochester to use the distributed leadership of its teachers, with the active support of principals and superintendents, to revitalize its schools to better serve its diverse and low-income student population. This book is for teachers, parents, school leaders, and members of communities who are interested in the well-being of children and youth and the education of all our children. All of us have a stake in a public school system from which students emerge as fully-formed learners and thinkers and who believe in their ability to affect what happens to them and their communities.

Required Signal-to-noise Ratios, RF Signal Power, and Bandwidth for Multichannel Radio Communications Systems - E. F. Florman 1962