Decoder

Vikram Arkalgud Chandrasetty,Sayed Mahfuzul Aziz

High-Speed Decoders for Polar Codes Pascal Giard,Claude Thibeault,Warren J. Gross,2017-08-30 A new class of provably capacity achieving error-correction codes, polar codes are suitable for many problems, such as lossless and lossy source coding, problems with side information, multiple access channel, etc. The first comprehensive book on the implementation of decoders for polar codes, the authors take a tutorial approach to explain the practical decoder implementation challenges and trade-offs in either software or hardware. They also demonstrate new trade-offs in latency, throughput, and complexity in software implementations for high-performance computing and GPGPUs, and hardware implementations using custom processing elements, full-custom application-specific integrated circuits (ASICs), and field-programmable-gate arrays (FPGAs). Presenting a good overview of this research area and future directions, High-Speed Decoders for Polar Codes is perfect for any researcher or SDR practitioner looking into implementing efficient decoders for polar codes, as well as students and professors in a modern error correction class. As polar codes have been accepted to protect the control channel in the next-generation mobile communication standard (5G) developed by the 3GPP, the audience includes engineers who will have to implement decoders for such codes and hardware engineers designing the backbone of communication networks.

Pilot's Pocket Decoder Christopher Abbe,1998-06-22 Compact enough to slip into your flight ease and comrehensive enough to ensure master, of the daily parlance of pilots, this handy reference clarifies nearly 3,000 essential acronyms, abbreviations, symbols, technical terms, and slang definitions used in aviation. Completely up to date and categorically alphabetized, this crucial resource covers everything you need to know.

Turbo-like Codes Aliazam Abbasfar,2007-09-09 This book introduces turbo error correcting

concept in a simple language, including a general theory and the algorithms for decoding turbo-like code. It presents a unified framework for the design and analysis of turbo codes and LDPC codes and their decoding algorithms. A major focus is on high speed turbo decoding, which targets applications with data rates of several hundred million bits per second (Mbps).

The Michigan Algorithm Decoder Bruce W. Arden,Bernard A. Galler,Robert M. Graham,1965

Joint Source-Channel Decoding Pierre Duhamel,Michel Kieffer,2009-11-26 Treats joint source and channel decoding in an integrated way Gives a clear description of the problems in the field together with the mathematical tools for their solution Contains many detailed examples useful for practical applications of the theory to video broadcasting over mobile and wireless networks Traditionally, cross-layer and joint source-channel coding were seen as incompatible with classically structured networks but recent advances in theory changed this situation. Joint source-channel decoding is now seen as a viable alternative to separate decoding of source and channel codes, if the protocol layers are taken into account. A joint source/protocol/channel approach is thus addressed in this book: all levels of the protocol stack are considered, showing how the information in each layer influences the others. This book provides the tools to show how cross-layer and joint source-channel coding and decoding are now compatible with present-day mobile and wireless networks, with a particular application to the key area of video transmission to mobiles. Typical applications are broadcasting, or point-to-point delivery of multimedia contents, which are very timely in the context of the current development of mobile services such as audio (MPEG4 AAC) or video (H263, H264) transmission using recent wireless transmission standards (DVH-H, DVB-SH, WiMAX, LTE). This cross-disciplinary book is ideal for graduate students, researchers, and more generally professionals working either in signal processing for communications or in networking applications, interested in

reliable multimedia transmission. This book is also of interest to people involved in cross-layer optimization of mobile networks. Its content may provide them with other points of view on their optimization problem, enlarging the set of tools which they could use. Pierre Duhamel is director of research at CNRS/ LSS and has previously held research positions at Thomson-CSF, CNET, and ENST, where he was head of the Signal and Image Processing Department. He has served as chairman of the DSP committee and associate Editor of the IEEE Transactions on Signal Processing and Signal Processing Letters, as well as acting as a co-chair at MMSP and ICASSP conferences. He was awarded the Grand Prix France Telecom by the French Science Academy in 2000. He is co-author of more than 80 papers in international journals, 250 conference proceedings, and 28 patents. Michel Kieffer is an assistant professor in signal processing for communications at the Université Paris-Sud and a researcher at the Laboratoire des Signaux et Systèmes, Gif-sur-Yvette, France. His research interests are in joint source-channel coding and decoding techniques for the reliable transmission of multimedia contents. He serves as associate editor of Signal Processing (Elsevier). He is co-author of more than 90 contributions to journals, conference proceedings, and book chapters. Treats joint source and channel decoding in an integrated way Gives a clear description of the problems in the field together with the mathematical tools for their solution Contains many detailed examples useful for practical applications of the theory to video broadcasting over mobile and wireless networks

Decoded (Enhanced Edition) Jay-Z,2010-12-07 This enhanced eBook includes: • Over 30 minutes of never-before-seen video* interviews with Jay-Z discussing the back-story and inspiration for his songs • Two bonus videos*: "Rap is Poetry" and "The Evolution of My Style" • The full text of the book with illustrations and photographs *Video may not play on all readers. Check your user

manual for details. Expanded edition of the acclaimed New York Times bestseller features 16 pages of new material, including 3 new songs decoded. Decoded is a book like no other: a collection of lyrics and their meanings that together tell the story of a culture, an art form, a moment in history, and one of the most provocative and successful artists of our time.

Resource Efficient LDPC Decoders Vikram Arkalgud Chandrasetty,Sayed Mahfuzul Aziz,2017-12-15 This book takes a practical hands-on approach to developing low complexity algorithms and transforming them into working hardware. It follows a complete design approach – from algorithms to hardware architectures - and addresses some of the challenges associated with their design, providing insight into implementing innovative architectures based on low complexity algorithms. The reader will learn: Modern techniques to design, model and analyze low complexity LDPC algorithms as well as their hardware implementation How to reduce computational complexity and power consumption using computer aided design techniques All aspects of the design spectrum from algorithms to hardware implementation and performance trade-offs Provides extensive treatment of LDPC decoding algorithms and hardware implementations Gives a systematic guidance, giving a basic understanding of LDPC codes and decoding algorithms and providing practical skills in implementing efficient LDPC decoders in hardware Companion website containing C-Programs and MATLAB models for simulating the algorithms, and Verilog HDL codes for hardware modeling and synthesis

A Discriminative Approach to Bayesian Filtering with Applications to Human Neural Decoding Michael C. Burkhart,2019-05-26 Given a stationary state-space model that relates a sequence of hidden states and corresponding measurements or observations, Bayesian filtering provides a principled statistical framework for inferring the posterior distribution of the current state given all

measurements up to the present time. For example, the Apollo lunar module implemented a Kalman filter to infer its location from a sequence of earth-based radar measurements and land safely on the moon. To perform Bayesian filtering, we require a measurement model that describes the conditional distribution of each observation given state. The Kalman filter takes this measurement model to be linear, Gaussian. Here we show how a nonlinear, Gaussian approximation to the distribution of state given observation can be used in conjunction with Bayes' rule to build a nonlinear, non-Gaussian measurement model. The resulting approach, called the Discriminative Kalman Filter (DKF), retains fast closed-form updates for the posterior. We argue there are many cases where the distribution of state given measurement is better-approximated as Gaussian, especially when the dimensionality of measurements far exceeds that of states and the Bernstein—von Mises theorem applies. Online neural decoding for brain-computer interfaces provides a motivating example, where filtering incorporates increasingly detailed measurements of neural activity to provide users control over external devices. Within the BrainGate2 clinical trial, the DKF successfully enabled three volunteers with quadriplegia to control an on-screen cursor in real-time using mental imagery alone. Participant "T9" used the DKF to type out messages on a tablet PC. Nonstationarities, or changes to the statistical relationship between states and measurements that occur after model training, pose a significant challenge to effective filtering. In brain-computer interfaces, one common type of nonstationarity results from wonkiness or dropout of a single neuron. We show how a robust measurement model can be used within the DKF framework to effectively ignore large changes in the behavior of a single neuron. At BrainGate2, a successful online human neural decoding experiment validated this approach against the commonly-used Kalman filter.

Complexity Aspects in Near Capacity MIMO Detection Decoding Ernesto Zimmermann,2007

Performance of Several Convolutional and Block Codes with Threshold Decoding Frank Neuman,Dale Raymond Lumb,1968

Trellises and Trellis-Based Decoding Algorithms for Linear Block Codes Shu Lin,Tadao Kasami,Toru Fujiwara,Marc Fossorier,2012-12-06 As the demand for data reliability increases, coding for error control becomes increasingly important in data transmission systems and has become an integral part of almost all data communication system designs. In recent years, various trellis-based soft-decoding algorithms for linear block codes have been devised. New ideas developed in the study of trellis structure of block codes can be used for improving decoding and analyzing the trellis complexity of convolutional codes. These recent developments provide practicing communication engineers with more choices when designing error control systems. Trellises and Trellis-based Decoding Algorithms for Linear Block Codes combines trellises and trellis-based decoding algorithms for linear codes together in a simple and unified form. The approach is to explain the material in an easily understood manner with minimal mathematical rigor. Trellises and Trellis-based Decoding Algorithms for Linear Block Codes is intended for practicing communication engineers who want to have a fast grasp and understanding of the subject. Only material considered essential and useful for practical applications is included. This book can also be used as a text for advanced courses on the subject.

Computer Decoder Andi Diehn,2019 Follows Dorothy Vaughan's path from math teacher to human computer as well as her success as first African American supervisor at her company.

The Decoder Jay Weight,2010-03-02 A teenage farm boy with a secret ability has a desire to find his purpose in life, but can't quite figure out who he really is or where his ability comes from. When

Ryder Boone, a fifteen-year-old teenager from the Midwest, reveals to his best friend, Clair Parker, he possesses a secret ability enabling him to imagine the past and foresee the future of those he touches, he unintentionally discovers his purpose in life, to rescue Clair's father, Dean, who has been thought to be dead for more than fifteen years. Complications exist between attempting to find Clair's thought to be dead father and maintaining his crush of Clair. Little does he know there is more to his ability than meets the eye.

Turbo Decoder Architecture for Beyond-4G Applications Cheng-Chi Wong,Hsie-Chia Chang,2013-10-01 This book describes the most recent techniques for turbo decoder implementation, especially for 4G and beyond 4G applications. The authors reveal techniques for the design of high-throughput decoders for future telecommunication systems, enabling designers to reduce hardware cost and shorten processing time. Coverage includes an explanation of VLSI implementation of the turbo decoder, from basic functional units to advanced parallel architecture. The authors discuss both hardware architecture techniques and experimental results, showing the variations in area/throughput/performance with respect to several techniques. This book also illustrates turbo decoders for 3GPP-LTE/LTE-A and IEEE 802.16e/m standards, which provide a low-complexity but high-flexibility circuit structure to support these standards in multiple parallel modes. Moreover, some solutions that can overcome the limitation upon the speedup of parallel architecture by modification to turbo codec are presented here. Compared to the traditional designs, these methods can lead to at most 33% gain in throughput with similar performance and similar cost.

List Decoding of Error-Correcting Codes Venkatesan Guruswami,2004-11-29 This monograph is a thoroughly revised and extended version of the author's PhD thesis, which was selected as the

winning thesis of the 2002 ACM Doctoral Dissertation Competition. Venkatesan Guruswami did his PhD work at the MIT with Madhu Sudan as thesis adviser. Starting with the seminal work of Shannon and Hamming, coding theory has generated a rich theory of error-correcting codes. This theory has traditionally gone hand in hand with the algorithmic theory of decoding that tackles the problem of recovering from the transmission errors efficiently. This book presents some spectacular new results in the area of decoding algorithms for error-correcting codes. Specifically, it shows how the notion of list-decoding can be applied to recover from far more errors, for a wide variety of error-correcting codes, than achievable before The style of the exposition is crisp and the enormous amount of information on combinatorial results, polynomial time list decoding algorithms, and applications is presented in well structured form.

BCS-18A Command Decoder-selector Hans Laping,1980 This report describes an 18-channel command decoder-selector which operates in conjunction with an HF command receiver to allow secure and reliable radio control of high altitude balloon payloads. A detailed technical description and test results are also included. (Author).

K-Best Decoders for 5G+ Wireless Communication Mehnaz Rahman,Gwan S. Choi,2016-08-31 This book discusses new, efficient and hardware realizable algorithms that can attain the performance of beyond 5G wireless communication. The authors explain topics gradually, stepping from basic MIMO detection to optimized schemes for both hard and soft domain MIMO detection and also to the feasible VLSI implementation, scalable to any MIMO configuration (including massive MIMO, used in satellite/space communication). The techniques described in this book enable readers to implement real designs, with reduced computational complexity and improved performance.

Algorithmic Results in List Decoding Venkatesan Guruswami,2007-01-24 Algorithmic Results in List Decoding introduces and motivates the problem of list decoding, and discusses the central algorithmic results of the subject, culminating with the recent results on achieving list decoding capacity. The main technical focus is on giving a complete presentation of the recent algebraic results achieving list decoding capacity, while pointers or brief descriptions are provided for other works on list decoding. Algorithmic Results in List Decoding is intended for scholars and graduate students in the fields of theoretical computer science and information theory. The author concludes by posing some interesting open questions and suggests directions for future work.

Scalable Parallel Programming Applied to H.264/AVC Decoding Ben Juurlink,Mauricio Alvarez-Mesa,Chi Ching Chi,Arnaldo Azevedo,Cor Meenderinck,Alex Ramirez,2012-06-01 Existing software applications should be redesigned if programmers want to benefit from the performance offered by multi- and many-core architectures. Performance scalability now depends on the possibility of finding and exploiting enough Thread-Level Parallelism (TLP) in applications for using the increasing numbers of cores on a chip. Video decoding is an example of an application domain with increasing computational requirements every new generation. This is due, on the one hand, to the trend towards high quality video systems (high definition and frame rate, 3D displays, etc) that results in a continuous increase in the amount of data that has to be processed in real-time. On the other hand, there is the requirement to maintain high compression efficiency which is only possible with video codes like H.264/AVC that use advanced coding techniques. In this book, the parallelization of H.264/AVC decoding is presented as a case study of parallel programming. H.264/AVC decoding is an example of a complex application with many levels of dependencies, different kernels, and irregular data structures. The book presents a detailed methodology for parallelization of this type of

applications. It begins with a description of the algorithm, an analysis of the data dependencies and an evaluation of the different parallelization strategies. Then the design and implementation of a novel parallelization approach is presented that is scalable to many core architectures. Experimental results on different parallel architectures are discussed in detail. Finally, an outlook is given on parallelization opportunities in the upcoming HEVC standard.

The Narc Decoder Tina Swithin,2016-02-22 Divorcing a narcissist? You are probably left feeling baffled and shaken by the communication that you receive from the narcissist. In my mid-twenties, I contemplated learning multiple foreign languages. I envisioned dabbling in French to successfully make my way around Paris or Irish Gaelic to explore the rich history of Ireland along with my deep ancestral roots in that country. My day dreams about learning new languages always went hand in hand with the imagery of world travel. The thought of exploring exotic and old world places far away from home intrigued me. My mind summoned several foreign adventures, but never did I think I would need to learn a foreign language to navigate my own life. In 2008, I heard the words, Narcissistic Personality Disorder (NPD) to describe my then-husband, Seth. It took a couple years for the reality of those three little words to really sink in. Looking back, the red flags had been waving in the wind since our very first date. Those flags grew taller and more vibrant in color during our marriage. As it turns out, those same red flags that had been lining my path for years were dipped in a highly flammable mixture of kerosene. I realized the danger only when they exploded near the end of my marriage. Like any unexpected explosion, I was unprepared and left nursing deep, emotional, third-degree burns. In my research, I discovered a new language which took quite a bit of studying and insight on NPD to understand. As it turns out, the reason that I was so bewildered by Seth's communication style was that we were speaking completely different

languages. I spoke the English version of human while he was speaking the non-human Narc-ish. I am convinced there is a Narc-ish dictionary or manual hidden deep in a dark, musty hole somewhere in a faraway land with step-by-step instructions on how to inflict fear, confusion and despair. From this land, narcissists hail. Their secret language can only be decoded by those who aren't fooled by the narcissist's stealth ability to inflict confusion and chaos with it. My computer has a feature that allows me to translate most languages. However, this particular area of my life requires technology that is a bit savvier. Need is the catalyst of industry: and I was in need of a device to decipher Narc-ish. So, I invented one. I call it the Narc Decoder and have made life-altering good use of it. The good news is, everyone has access to the Narc Decoder because it is a machine that I am honored to replicate and share with anyone who is forced to communicate with a narcissist. Once you understand how to use the Narc Decoder, your life will change for the better. You will become empowered and will regain your voice. Over time, you will begin to find humor in the communication style that once left you on your knees begging for mercy.

Decoder: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn

Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Decoder : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the

power of evil.

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