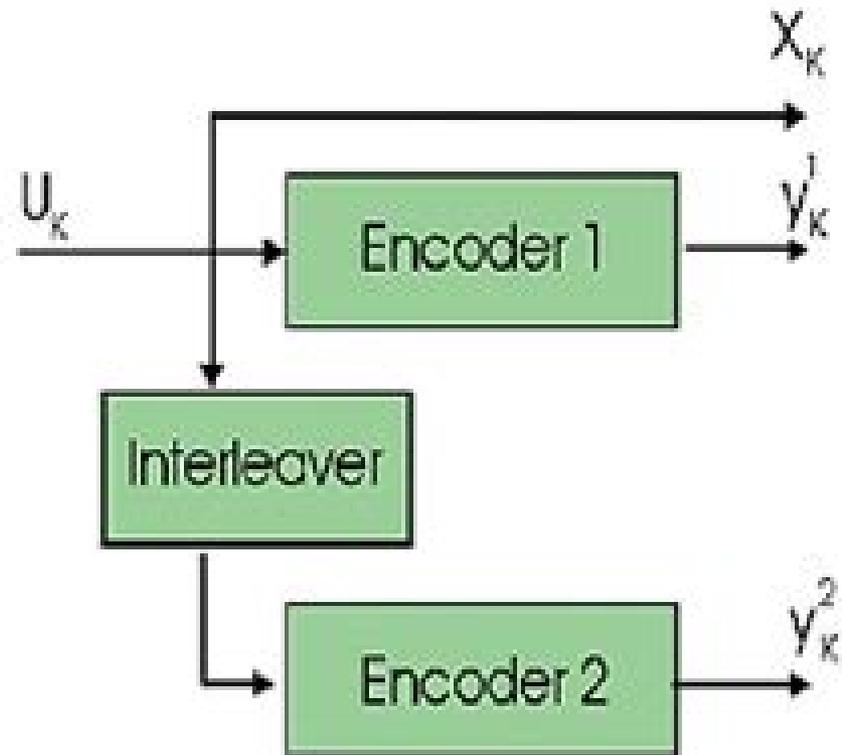


Turbo Codes (contd.)

- Most common is the **PCCC** (Parallel Concatenated Convolutional Codes)
- Produce high weight code words
- Interleaver shuffles the input sequence, u_k , in such a way that it produces a high weight



Turbo Codes

Lucian Trifina, Daniela Tarniceriu



Turbo Codes:

Turbo Codes Alexandre Giulietti, Bruno Bougard, Liesbet Van Der Perre, 2003-12-31 PREFACE The increasing demand on high data rate and quality of service in wireless communication has to cope with limited bandwidth and energy resources More than 50 years ago Shannon has paved the way to optimal usage of bandwidth and energy resources by bounding the spectral efficiency vs signal to noise ratio trade off However as any information theorist Shannon told us what is the best we can do but not how to do it 1 In this view turbo codes are like a dream come true they allow approaching the theoretical Shannon capacity limit very closely However for the designer who wants to implement these codes at first sight they appear to be a nightmare We came a huge step closer in striving the theoretical limit but see the historical axiom repeated on a different scale we know we can achieve excellent performance with turbo codes but not how to realize this in real devices

Turbo Codes Branka Vucetic, Jinhong Yuan, 2012-12-06 This book grew out of our research industry consulting and continuing education courses Turbo coding initially seemed to belong to a restricted research area while now has become a part of the mainstream telecommunication theory and practice The turbo decoding principles have found widespread applications not only in error control but in detection interference suppression and equalization Intended for use by advanced students and professional engineers involved in coding and telecommunication research the book includes both basic and advanced material The chapters are sequenced so that the knowledge is acquired in a logical and progressive way The algorithm descriptions and analysis are supported by examples throughout the book Performance evaluations of the presented algorithms are carried out both analytically and by simulations Basic material included in the book has been taught to students and practicing professionals over the last four years in the form of senior undergraduate or graduate courses lecture series and short continuing education courses

Permutation Polynomial Interleavers for Turbo Codes Lucian Trifina, Daniela Tarniceriu, 2018-10-01 This book investigates the permutation polynomial PP based interleavers for turbo codes including all the main theoretical and practical findings related to topics such as full coefficient conditions for PPs up to fifth the number of all true different PPs up to fifth degree the number of true different PPs under Zhao and Fan sufficient conditions for any degree with direct formulas or with a simple algorithm parallel decoding of turbo codes using PP interleavers by butterfly networks upper bounds of the minimum distance for turbo codes with PP interleavers specific methods to design and find PP interleavers with good bit frame error rate BER FER performance The theoretical results are explained in great detail to enhance readers understanding The book is intended for engineers in the telecommunications field but the chapters dealing with the PP coefficient conditions and with the number of PP are of interest to mathematicians working in the field

Turbo-like Codes Aliazam Abbasfar, 2007-09-09 The common property among turbo like code is that they consist of very simple constituent codes that are connected to each other with random or pseudorandom interleavers The crucial novelty in these codes is the iterative decoding This means that the constituent codes are decoded separately

which is efficient and practically feasible since they are very simple codes. Then they pass new information to each other in a course of a few iterations. It has been shown that iterative decoding is a generalization of the well known probability or belief propagation algorithm. The belief propagation algorithm that has been essential for development of new ideas throughout this work is described in the context of coding. The basic theorems for this algorithm are explained and proven in the following paragraphs. This is then followed by a description of the computational algorithm. The probability propagation algorithm is proven in conjunction with a tree structured graph without any cycle. In fact, the graphical representation of any problem solved by this algorithm is the centerpiece of the algorithm. The generalization of the algorithm for graphs with cycles is presented later on. Representation of codes on graph is the next step towards characterization of the iterative decoding as an example of the probability propagation algorithm. The graph representations are presented for a few codes that are commonly used in turbo like codes.

Turbo Code Applications Keattisak Sripimanwat, 2006-02-23
Turbo Code Applications a journey from a paper to realization presents a temporary applications of turbo codes in thirteen technical chapters. Each chapter focuses on a particular communication technology utilizing turbo codes and they are written by experts who have been working in related areas from around the world. This book is published to celebrate the 10 year anniversary of turbo codes invention by Claude Berrou, Alain Glavieux and Punya Thitimajshima, 1993-2003. As known for more than a decade, turbo code is the astonishing error control coding scheme which its performance closes to the Shannon's limit. It has been honored consequently as one of the seventeen great innovations during the first fifty years of information theory foundation. With the amazing performance compared to that of other existing codes, turbo codes have been adopted into many communication systems and incorporated with various modern industrial standards. Numerous research works have been reported from universities and advance companies worldwide. Evidently, it has successfully revolutionized the digital communications. Turbo code and its successors have been applied in most communications

starting from the ground or terrestrial systems of data storage, ADSL modem and fiber optic communications. Subsequently, it moves up to the air channel applications by employing to wireless communication systems and then goes up to the space by using in digital video broadcasting and satellite communications. Undoubtedly, with the excellent error correction potential, it has been selected to support data transmission in space exploring system as well.

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Turbo Code Applications a journey from a paper to realization presents a temporary applications of turbo codes in thirteen technical chapters. Each chapter focuses on a particular communication technology utilizing turbo codes and they are written by experts who have been working in related areas from around the world. This book is published to celebrate the 10 year anniversary of turbo codes invention by Claude Berrou, Alain Glavieux and Punya Thitimajshima, 1993-2003. As known for more than a decade, turbo code is the astonishing error control coding scheme which its performance closes to the Shannon's limit. It has been honored consequently as one of the seventeen great innovations

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Signal, 1999 Codes and turbo codes Claude Berrou, 2011-01-27 This book is devoted to one of the essential functions of modern telecommunications systems: channel coding or error correction coding. Its main topic is iteratively decoded algebraic codes, convolutional codes, and concatenated codes.

Turbo Codes in Digital Broadcasting - Could it Double Capacity?, 1999 **Mobile Multimedia Broadcasting Standards** Fa-Long Luo, 2008-11-24 Mobile multimedia broadcasting encompasses a broad range of topics including radio propagation, modulation and demodulation, error control, signal compression and coding, transport and time slicing, system on chip, real-time implementation in hardware, software, and system levels. The major goal of this technology is to bring multimedia-enriched contents to handheld devices such as mobile phones, portable digital assistants, and media players through radio transmission or internet protocol (IP)-based broadband networks. Research and development of mobile multimedia broadcasting technologies are now explosively growing and regarded as new killer applications. A number of mobile multimedia broadcasting standards related to transmission, compression, and multiplexing now coexist and are being extensively further developed. The development and implementation of mobile multimedia broadcasting systems are very challenging tasks and require the huge efforts of the related industry, research, and regulatory authorities so as to bring the success. From an implementation design and engineering practice point of view, this book aims to be the first single volume to provide a comprehensive and highly coherent treatment for multiple standards of mobile multimedia broadcasting by covering basic principles, algorithms, design trade-off, and well-compared implementation system examples. This book is organized into 4 parts with 22 chapters.

Novel Algorithms and Techniques in Telecommunications and Networking Tarek Sobh, Khaled Elleithy, Ausif Mahmood, 2010-01-30 *Novel Algorithms and Techniques in Telecommunications and Networking* includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics Technology and Automation, Telecommunications and Networking. *Novel Algorithms and Techniques in Telecommunications and Networking* includes selected papers from the conference proceedings of the International Conference on Telecommunications and Networking (TeNe 08) which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering (CISSE 2008).

Turbo-codes Charles

Yaacoub,2018 This book presents the journey of Turbo Codes from their first invention and initial design as error correcting codes to their application as video compression tools This journey is presented in three milestones First Turbo Codes are introduced as a channel coding tool Different encoding structures and decoding algorithms are discussed from theoretical and practical aspects for binary and non binary Turbo Codes Slepian Wolf and Wyner Ziv theorems are then discussed as they constitute the main theory behind distributed source coding DSC Turbo Codes are then presented as a practical tool for distributed source compression The study of Turbo Codes application in DSC is also extended to the case of joint source channel coding JSCC where these codes are jointly used for both source compression and error correction Theoretical models for DSC and JSCC are thoroughly discussed along with the necessary modifications to the initial turbo encoder decoder system Different simulation setups are considered and results are presented and analyzed Finally Turbo Code based distributed video coding DVC techniques are discussed The motivation behind DVC is first presented followed by a general description of the DVC system model Different techniques used to generate the side information needed for practical DVC systems are then discussed Theoretical compression bounds are derived for both error free and erroneous transmissions Applications of DVC in the context of single user and multiuser setups are finally presented with different simulation scenarios and performance analysis

Finite Geometry Low Density Parity Check Codes Yu Kou,2001 **High Performance Codes for AWGN, Erasure and Burst Channels** Shumei Song,2007 **Proceedings** ,1999 **MILCOM '97** IEEE Communications Society,1997 This text covers the 1997 Milcom conference which provides technical data on the systems supporting communications operations It includes such topics as architecture and protocols laser communications information and dissemination satellite communications and SATCOM technology **Conference Record of the Thirty-Eighth Asilomar Conference on Signals, Systems & Computers, November 7-10, 2004, Pacific Grove, California** Michael B. Matthews,2004 **Conference Record** ,1999 *IEEE International Symposium on Information Theory* ,2000 *Communications (ICC 2000)* IEEE Communications Society,IEEE, Communications Society Staff,2000-06

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