

## Sequential Decoding

“The ability to perceive words and syllables as wholes evolves only through complete and repeated attention to sequences of individual letters.”

Adams, 1990, p.130

# Sequential Decoding

**Jin-Ying Zhang**



## Sequential Decoding:

**Sequential Decoding** John M. Wozencraft, Barney Reiffen, 1961 **ON SEQUENTIAL DECODING.** S. Lin, HAWAII UNIV HONOLULU DEPT OF ELECTRICAL ENGINEERING., 1967 By a proper selection of distance metric it is possible to show that the average number of computations for the Wozencraft sequential decoding algorithm can be bounded independently of the code constraint length for transmission rates below a computation rate  $R_{comp}$  The bound on the probability of decoding error is proved to be similar to the bound for Fano's algorithm A modification of the Wozencraft algorithm is presented Use of a multiple threshold test MTT enables the decoder to adjust its operation to the noise conditions A modified search procedure is also presented Analytical results show that this modified algorithm is comparable with Fano's algorithm in terms of the average number of computations and the probability of error Author *Study of Sequential Decoding*, 1972 *Cryptography and Coding* Colin Boyd, 1995-12 This monograph provides a formal and systematic exposition of the main results on the existence and optimality of equilibria in economies with increasing returns to scale For that a general equilibrium model is carefully constructed first by means of a precise formalization of consumers and firms and the proof of an abstract existence result The analysis shifts then to the study of specific normative and positive models which are particularizations the general one and to the study of the efficiency of equilibrium allocations The book provides an unified approach of the topic it maintains a relatively low mathematical complexity and offers a highly self contained exposition **Introduction to Convolutional Codes with Applications** Ajay Dholakia, 2012-12-06 Introduction to Convolutional Codes with Applications is an introduction to the basic concepts of convolutional codes their structure and classification various error correction and decoding techniques for convolutionally encoded data and some of the most common applications The definition and representations distance properties and important classes of convolutional codes are also discussed in detail The book provides the first comprehensive description of table driven correction and decoding of convolutionally encoded data Complete examples of Viterbi sequential and majority logic decoding technique are also included allowing a quick comparison among the different decoding approaches Introduction to Convolutional Codes with Applications summarizes the research of the last two decades on applications of convolutional codes in hybrid ARQ protocols A new classification allows a natural way of studying the underlying concepts of hybrid schemes and accommodates all of the new research A novel application of fast decodable invertible convolutional codes for lost packet recovery in high speed networks is described This opens the door for using convolutional coding for error recovery in high speed networks Practicing communications electronics and networking engineers who want to get a better grasp of the underlying concepts of convolutional coding and its applications will greatly benefit by the simple and concise style of explanation An up to date bibliography of over 300 papers is included Also suitable for use as a textbook or a reference text in an advanced course on coding theory with emphasis on convolutional codes **Error Correction Coding** Todd K. Moon, 2020-12-22 Providing in

depth treatment of error correction Error Correction Coding Mathematical Methods and Algorithms 2nd Edition provides a comprehensive introduction to classical and modern methods of error correction The presentation provides a clear practical introduction to using a lab oriented approach Readers are encouraged to implement the encoding and decoding algorithms with explicit algorithm statements and the mathematics used in error correction balanced with an algorithmic development on how to actually do the encoding and decoding Both block and stream convolutional codes are discussed and the mathematics required to understand them are introduced on a just in time basis as the reader progresses through the book The second edition increases the impact and reach of the book updating it to discuss recent important technological advances New material includes Extensive coverage of LDPC codes including a variety of decoding algorithms A comprehensive introduction to polar codes including systematic encoding decoding and list decoding An introduction to fountain codes Modern applications to systems such as HDTV DVBT2 and cell phones Error Correction Coding includes extensive program files for example C code for all LDPC decoders and polar code decoders laboratory materials for students to implement algorithms and an updated solutions manual all of which are perfect to help the reader understand and retain the content The book covers classical BCH Reed Solomon Golay Reed Muller Hamming and convolutional codes which are still component codes in virtually every modern communication system There are also fulsome discussions of recently developed polar codes and fountain codes that serve to educate the reader on the newest developments in error correction

**Error-Correction Coding for Digital Communications** George C. Clark Jr., J. Bibb Cain, 2013-06-29 Error correction coding is being used on an almost routine basis in most new communication systems Not only is coding equipment being used to increase the energy efficiency of communication links but coding ideas are also providing innovative solutions to many related communication problems Among these are the elimination of intersymbol interference caused by filtering and multipath and the improved demodulation of certain frequency modulated signals by taking advantage of the natural coding provided by a continuous phase Although several books and numerous articles have been written on coding theory there are still noticeable deficiencies First the practical aspects of translating a specific decoding algorithm into actual hardware have been largely ignored The information that is available is sketchy and is widely dispersed Second the information required to evaluate a particular technique under situations that are encountered in practice is available for the most part only in private company reports This book is aimed at correcting both of these problems It is written for the design engineer who must build the coding and decoding equipment and for the communication system engineer who must incorporate this equipment into a system It is also suitable as a senior level or first year graduate text for an introductory one semester course in coding theory The book Uses a minimum of mathematics and entirely avoids the classical theorem proof approach that is often seen in coding texts *Global Satellite Meteorological Observation (GSMO) Theory* Stojče Dimov

Ilčev, 2017-10-11 This book presents the principal structure of space systems functionality media and applications for modern

remote sensing transmission systems meteorological antennas propagation meteorological observation and transferring weather data from satellite to the ground infrastructures and users The book starts with a short background to the development of Radio and Space systems including overview concepts and applications of satellite communications in function of transfer meteorological observation data and images It goes on to discuss the fundamental principles of the space platforms and orbital parameters laws of satellite motions new types of launching systems satellite orbits and geometric relations spacecraft configuration payload structure type of onboard antenna systems satellite orbits and components of satellite bus The author also provides comprehensive coverage of baseband and transmission systems fundamentals of atmospheric electromagnetic radiation satellite meteorological parameters and instruments and research and applications in antenna systems and propagation This is a companion book of *Global Satellite Meteorological Observation Applications* Springer

*Global Mobile Satellite Communications Theory* Stojčević Dimov Ilčev, 2016-09-23 This book discusses current theory regarding global mobile satellite communications GMSC for maritime land road and rail and aeronautical applications It covers how these can enable connections between moving objects such as ships road and rail vehicles and aircrafts on one hand and on the other ground telecommunications subscribers through the medium of communications satellites ground earth stations Terrestrial Telecommunication Networks TTN Internet Service Providers ISP and other wireless and landline telecommunications providers This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits and projects of new hybrid satellite constellations The book presents current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations The first edition of *Global Mobile Satellite Communications* Springer 2005 was split into two books for the second edition one on applications and one on theory This book presents global mobile satellite communications theory

*Supporting Research and Advanced Development* ,1968

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