



# Iterative Detection

**Simon Plass, Armin Dammann, Stefan  
Kaiser, Khaled Fazel**



## **Iterative Detection:**

Iterative Detection Keith Chugg, Achilleas Anastasopoulos, Xiaopeng Chen, 2001 Iterative Detection Adaptivity Complexity Reduction and Applications is a primary resource for both researchers and teachers in the field of communication Unlike other books in the area it presents a general view of iterative detection that does not rely heavily on coding theory or graph theory The features of the text include Both theoretical background and numerous real world applications Over 70 detailed examples 100 problems 180 illustrations tables of notation and acronyms and an extensive bibliography and subject index A whole chapter devoted to a case study on turbo decoder design Receiver design guidelines rules and suggestions The most advanced view of iterative turbo detection based only on block diagrams and standard detection and estimation theory Development of adaptive iterative detection theory Application of adaptive iterative detection to phase and channel tracking in turbo coded systems and systems representative of digital mobile radio designs An entire chapter dedicated to complexity reduction Numerous recent research results Discussion of open problems at the end of each chapter Among the applications considered in this book are joint equalization and decoding turbo codes multiuser detection and decoding broadband wireless channel equalization and applications to two dimensional storage and imaging systems Audience Iterative Detection Adaptivity Complexity Reduction and Applications provides an accessible and detailed reference for researchers practicing engineers and students working in the field of detection and estimation It will be of particular interest to those who would like to learn how iterative detection can be applied to equalization interference mitigation and general signal processing tasks Researchers and practicing engineers interested in learning the turbo decoding algorithm should also have this book

**Base Station Cooperation Strategies for Multi-user Detection in Interference Limited Cellular Systems** Shahid Khattak, 2008 *Smart Computing and Communication* Meikang Qiu, 2019-11-04 This book constitutes the refereed proceedings of the 4th International Conference on Smart Computing and Communications SmartCom 2019 held in Birmingham UK in October 2019 The 40 papers presented in this volume were carefully reviewed and selected from 286 submissions They focus on both smart computing and communications fields and aimed to collect recent academic work to improve the research and practical application in the field **IoT as a Service** Bo Li, Changle Li, Mao Yang, Zhongjiang Yan, Jie Zheng, 2021-01-30 This book constitutes the refereed post conference proceedings of the 6th International Conference on IoT as a Service IoTaaS 2020 which took place in Xi'an China in November 2020 Due to COVID 19 pandemic the conference was held virtually The 69 revised full papers were carefully reviewed and selected from 136 submissions The papers present two technical tracks and three workshops The Second Workshop on Edge Intelligence and Computing for IoT Communications and Applications the Workshop on Satellite Communication Networks for Internet of Things the Workshop on Satellite Communications Space-Time Coding Theory in Optical Wireless MIMO Systems Xizheng Ke, 2025-06-16 This book is divided into 12 chapters including introduction multi aperture transmit receive technology in turbulent atmosphere

channel model and channel capacity orthogonal space time block coding layered space time coding hybrid space time coding space time trellis coding differential space time coding unitary space time coding adaptive layered space time coding performance analysis of indoor MIMO VLC system and detection algorithm of MIMO technology The key technologies of wireless optical MIMO systems are introduced and the basic framework of space time coding of wireless optical MIMO systems is proposed

**Detection Algorithms for Wireless Communications** Gianluigi Ferrari, Giulio Colavolpe, Riccardo Raheli, 2005-12-13 Wireless channels are becoming more and more important with the future development of wireless ad hoc networks and the integration of mobile and satellite communications To this end algorithmic detection aspects involved in the physical layer will become fundamental in the design of a communication system This book proposes a unified approach to detection for stochastic channels with particular attention to wireless channels The core idea is to show that the three main criteria of sequence detection symbol detection and graph based detection can all be described within a general framework This implies that a detection algorithm based on one criterion can be extended to the other criteria in a systematic manner Presents a detailed analysis of statistical signal detection for digital signals transmitted over wireless communications Provides a unifying framework for different signal detection algorithms such as sequence detection symbol detection and graph based detection important for the design of modern digital receivers operating over mobile channels Features the hot topic of graph based detection Detection Algorithms for Wireless Communications represents a novel contribution with respect to the current literature with a unique focus on detection algorithms as such it will prove invaluable to researchers working in academia and industry and in the field of wireless communications as well as postgraduate students attending advanced courses on mobile communications

Principles of Signal Detection and Parameter Estimation Bernard C. Levy, 2008-12-16 This textbook provides a comprehensive and current understanding of signal detection and estimation including problems and solutions for each chapter Signal detection plays an important role in fields such as radar sonar digital communications image processing and failure detection The book explores both Gaussian detection and detection of Markov chains presenting a unified treatment of coding and modulation topics Addresses asymptotic of tests with the theory of large deviations and robust detection This text is appropriate for students of Electrical Engineering in graduate courses in Signal Detection and Estimation

*Massive MIMO Detection Algorithm and VLSI Architecture* Leibo Liu, Guiqiang Peng, Shaojun Wei, 2019-02-20 This book introduces readers to a reconfigurable chip architecture for future wireless communication systems such as 5G and beyond The proposed architecture perfectly meets the demands for future mobile communication solutions to support different standards algorithms and antenna sizes and to accommodate the evolution of standards and algorithms It employs massive MIMO detection algorithms which combine the advantages of low complexity and high parallelism and can fully meet the requirements for detection accuracy Further the architecture is implemented using ASIC which offers high energy efficiency high area efficiency and low detection error After introducing massive MIMO

detection algorithms and circuit architectures the book describes the ASIC implementation for verifying the massive MIMO detection In turn it provides detailed information on the proposed reconfigurable architecture the data path and configuration path for massive MIMO detection algorithms including the processing unit interconnections storage mechanism configuration information format and configuration method Through-the-Wall Radar Imaging Moeness G. Amin,2017-12-19 Through the wall radar imaging TWRI allows police fire and rescue personnel first responders and defense forces to detect identify classify and track the whereabouts of humans and moving objects Electromagnetic waves are considered the most effective at achieving this objective yet advances in this multi faceted and multi disciplinary technology require taking phenomenological issues into consideration and must be based on a solid understanding of the intricacies of EM wave interactions with interior and exterior objects and structures Providing a broad overview of the myriad factors involved namely size weight mobility acquisition time aperture distribution power bandwidth standoff distance and most importantly reliable performance and delivery of accurate information Through the Wall Radar Imaging examines this technology from the algorithmic modeling experimentation and system design perspectives It begins with coverage of the electromagnetic properties of walls and building materials and discusses techniques in the design of antenna elements and array configurations beamforming concepts and issues and the use of antenna array with colocated and distributed apertures Detailed chapters discuss several suitable waveforms inverse scattering approaches and revolve around the relevance of physical based model approaches in TWRI along with theoretical and experimental research in 3D building tomography using microwave remote sensing high frequency asymptotic modeling methods synthetic aperture radar SAR techniques impulse radars airborne radar imaging of multi floor buildings strategies for target detection and detection of concealed targets The book concludes with a discussion of how the Doppler principle can be used to measure motion at a very fine level of detail The book provides a deep understanding of the challenges of TWRI stressing its multidisciplinary and phenomenological nature The breadth and depth of topics covered presents a highly detailed treatment of this potentially life saving technology **Neural Information Processing** Long Cheng,Andrew Chi Sing Leung,Seiichi Ozawa,2018-12-03 The seven volume set of LNCS 11301 11307 constitutes the proceedings of the 25th International Conference on Neural Information Processing ICONIP 2018 held in Siem Reap Cambodia in December 2018 The 401 full papers presented were carefully reviewed and selected from 575 submissions The papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains The 4th volume LNCS 11304 is organized in topical sections on feature selection clustering classification and detection Coding and Iterative Detection for Magnetic Recording Channels Zining Wu,2000-01-31 The advent of the internet age has produced enormous demand for increased storage capacity and for the consequent increases in the amount of information that can be stored in a small space While physical and media improvements have driven the majority of improvement in modern storage

systems signal processing and coding methods have increasingly been used to augment those improvements. Run length limited codes and partial response detection methods have come to be the norm in an industry that once rejected any sophistication in the read or write processing circuits. VLSI advances now enable increasingly sophisticated signal processing methods for negligible cost and complexity, a trend sure to continue even as disk access speeds progress to billions of bits per second and terabits per square inch in the new millennium of the information age. This new book representing the Ph.D. dissertation work of Stanford's recent graduate Dr. Zining Wu is an up-to-date and focused review of the area that should be of value to those just starting in this area and as well those with considerable expertise. The use of saturation recording, i.e. the mandated restriction of two level inputs creates interesting twists on the use of communication transmission methods in recording.

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

**MIMO-OFDM for LTE, WiFi and WiMAX** Lajos Hanzo, Yosef Akhtman, Li Wang, Ming Jiang, 2010-11-01

MIMO OFDM for LTE, WIFI and WIMAX Coherent versus Non Coherent and Cooperative Turbo Transceivers provides an up-to-date portrayal of wireless transmission based on OFDM techniques augmented with Space Time Block Codes (STBCs) and Spatial Division Multiple Access (SDMA). The volume also offers an in-depth treatment of cutting edge Cooperative Communications. This monograph collates the latest techniques in a number of specific design areas of turbo detected MIMO OFDM wireless systems. As a result, a wide range of topical subjects are examined including channel coding and multiuser detection (MUD) with a special emphasis on optimum maximum likelihood (ML) MUDs, reduced complexity genetic algorithm aided near ML MUDs and sphere detection. The benefits of spreading codes as well as joint iterative channel and data estimation are only a few of the radical new features of the book. Also considered are the benefits of turbo and LDPC channel coding, the entire suite of known joint coding and modulation schemes, space-time coding as well as SDMA MIMO within the context of various application examples. The book systematically converts the lessons of Shannon's information theory into design principles applicable to practical wireless systems; the depth of discussions increases towards the end of the book. Discusses many state-of-the-art topics important to today's wireless communications engineers. Includes numerous complete system design examples for the industrial practitioner. Offers a detailed portrayal of sphere detection. Based on over twenty years of research into OFDM in the context of various applications, subsequently presenting comprehensive bibliographies.

**Multi-Carrier Spread Spectrum 2007** Simon Plass, Armin Dammann, Stefan Kaiser, Khaled Fazel, 2007-06-14

This book provides the proceedings of the 6th International Workshop on Multi-Carrier Spread Spectrum (MCSS 2007), 7-9 May 2007, held in Herrsching, Germany. The book aims to edit the ensemble of the newest contributions and research results in this new field. The book presents comprehensive state-of-the-art articles about multi-carrier spread spectrum techniques and discusses multi-carrier spread spectrum techniques.

**LDPC Coded Modulations** Michele Franceschini, Gianluigi Ferrari, Riccardo Raheli, 2009-04-09

This book focuses on the analysis and design of low density parity

check LDPC coded modulations which are becoming part of several current and future communication systems such as high throughput terrestrial and satellite wireless networks In this book a two sided perspective on the design of LDPC coded systems is proposed encompassing both code modulation optimization transmitter side and detection algorithm design receiver side After introducing key concepts on error control coding in particular LDPC coding and detection techniques the book presents several relevant applications More precisely by using advanced performance evaluation techniques such as extrinsic information transfer charts the optimization of coded modulation schemes are considered for i memoryless channels ii dispersive and partial response channels and iii concatenated systems including differential encoding This book is designed to be used by graduate students working in the field of communication theory with particular emphasis on LDPC coded communication schemes and industry experts working on related fields

**5G and Beyond Wireless Systems** Manish Mandloi,Devendra Gurjar,Prabina Pattanayak,Ha Nguyen,2020-08-11 This book presents the fundamental concepts recent advancements and opportunities for future research in various key enabling technologies in next generation wireless communications The book serves as a comprehensive source of information in all areas of wireless communications with a particular emphasis on physical PHY layer techniques related to 5G wireless systems and beyond In particular this book focuses on different emerging techniques that can be adopted in 5G wireless networks Some of those techniques include massive MIMO mm Wave communications spectrum sharing device to device D2D and vehicular to anything V2X communications radio frequency RF based energy harvesting and NOMA Subsequent chapters cover the fundamentals and PHY layer design aspects of different techniques that can be useful for the readers to get familiar with the emerging technologies and their applications

**5th International ITG Conference on Source and Channel Coding (SCC)** Johannes Huber (Prof. Dr.-Ing.),2004 Algorithms for Communications Systems and their Applications Nevio Benvenuto,Giovanni Cherubini,Stefano Tomasin,2021-01-12 The definitive guide to problem solving in the design of communications systems In Algorithms for Communications Systems and their Applications 2nd Edition authors Benvenuto Cherubini and Tomasin have delivered the ultimate and practical guide to applying algorithms in communications systems Written for researchers and professionals in the areas of digital communications signal processing and computer engineering Algorithms for Communications Systems presents algorithmic and computational procedures within communications systems that overcome a wide range of problems facing system designers New material in this fully updated edition includes MIMO systems Space time block coding Spatial multiplexing Beamforming and interference management Channel Estimation OFDM and SC FDMA Synchronization Resource allocation bit and power loading Filtered OFDM Improved radio channel model Doppler and shadowing mmWave Polar codes including practical decoding methods 5G systems New Radio architecture initial access for mmWave physical channels The book retains the essential coding and signal processing theoretical and operative elements expected from a classic text further adopting the new radio of 5G systems as a case study

to create the definitive guide to modern communications systems      Advances in Artificial Intelligence and Security  
Xingming Sun,Xiaorui Zhang,Zhihua Xia,Elisa Bertino,2022-07-08 The 3 volume set CCIS 1586 CCIS 1587 and CCIS 1588  
constitutes the refereed proceedings of the 8th International Conference on Artificial Intelligence and Security ICAIS 2022  
which was held in Qinghai China in July 2022 The total of 115 full papers and 53 short papers presented in this 3 volume  
proceedings was carefully reviewed and selected from 1124 submissions The papers were organized in topical sections as  
follows Part I artificial intelligence Part II artificial intelligence big data cloud computing and security multimedia forensics  
Part III encryption and cybersecurity information hiding IoT security      *Space-Time Layered Information Processing for  
Wireless Communications* Mathini Sellathurai,Simon Haykin,2009-07-28 Discover cutting edge research in wireless  
communications This book presents cutting edge research in wireless communications particularly in the fast growing  
subject of multiple input multiple output MIMO wireless communication systems It begins with an introduction which  
includes historical notes and a review of turbo information processing and MIMO wireless communications and goes on to  
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