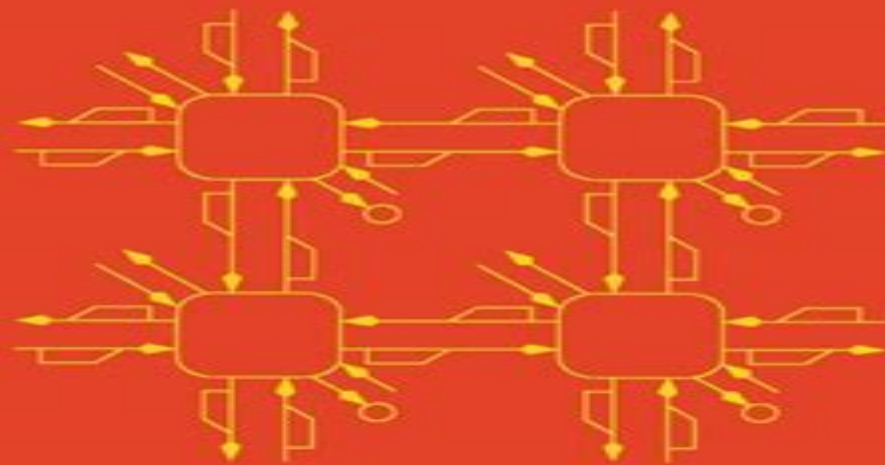


ITERATIVE DETECTION

Adaptivity, Complexity Reduction, and Applications



by
Keith Chugg
Achilleas Anastasopoulos
Xiaopeng Chen



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Iterative Detection

**Wei Xiang, Kan Zheng, Xuemin
(Sherman) Shen**



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Iterative Detection Keith Chugg, Achilleas Anastasopoulos, Xiaopeng Chen, 2012-12-06 *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.

Coding and Iterative Detection for Magnetic Recording Channels Zining Wu, 2012-12-06 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.

Base Station Cooperation Strategies for Multi-user Detection in Interference Limited Cellular Systems Shahid Khattak, 2008 *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.

5th International ITG Conference on Source and Channel Coding (SCC) Johannes Huber (Prof. Dr.-Ing.), 2004 **Complexity Aspects in Near Capacity MIMO Detection Decoding** Ernesto Zimmermann, 2007 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.

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

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

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

MIMO-OFDM for LTE, WiFi and WiMAX Lajos Hanzo, Yosef Akhtman, Li Wang, Ming Jiang, 2011-07-05 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 SDM 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

5G Mobile Communications Wei Xiang, Kan Zheng, Xuemin (Sherman) Shen, 2016-10-13 This book provides a comprehensive overview of the emerging technologies for next generation 5G mobile communications with insights into the long term future of 5G Written by international leading experts on the subject this contributed volume covers a wide range of technologies research results and networking methods Key enabling technologies for 5G systems include but are not limited to millimeter wave communications massive MIMO technology and non orthogonal multiple access 5G will herald an even greater rise in the prominence of mobile access based upon both human centric and machine centric networks Compared with existing 4G communications systems unprecedented numbers of smart and heterogeneous wireless devices will be accessing future 5G mobile systems As a result a new paradigm shift is required to deal with challenges on explosively growing requirements in mobile data traffic volume 1000x number of connected devices 10 100x typical end user data rate 10 100x and device network lifetime 10x Achieving these ambitious goals calls for revolutionary candidate technologies in future 5G mobile systems Designed for researchers and professionals involved with networks and communication systems 5G Mobile Communications is a straightforward easy to read analysis of the possibilities of 5G systems

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

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

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

Image and Graphics Yao Zhao,Nick Barnes,Baoquan Chen,Rüdiger Westermann,Xiangwei Kong,Chunyu Lin,2019-11-27 This three volume set LNCS 11901 11902 and 11903 constitutes the refereed conference proceedings of the 10thth International Conference on Image and Graphics ICIG 2019 held in Beijing China in August 2019 The 183 full papers presented were selected from 384 submissions and focus on advances of theory techniques and algorithms as well as innovative technologies of image video and graphics processing and fostering innovation entrepreneurship and networking

Multiple Access Techniques for 5G Wireless Networks and Beyond Mojtaba Vaezi,Zhiguo Ding,H. Vincent Poor,2018-08-23 This book presents comprehensive coverage of current and emerging multiple access random access and waveform design techniques for 5G wireless networks and beyond A definitive reference for researchers in these fields the book describes recent research from academia industry and standardization bodies The book is an all encompassing treatment of these areas addressing orthogonal multiple access and waveform design non orthogonal multiple access NOMA via power code and other domains and orthogonal non orthogonal and grant free random access The book builds its foundations on state of the art research papers measurements and experimental results from a variety of sources

Communications and Networking Qianbin Chen,Weixiao Meng,Liqiang Zhao,2017-09-30 The two volume set LNICST 209 210 constitutes the post conference proceedings of the 11th EAI International Conference on Communications and Networking ChinaCom 2016 held in Chongqing China in September 2016 The total of 107 contributions presented in these volumes are carefully reviewed and selected from 181 submissions The book is organized in topical sections on MAC schemes traffic algorithms and routing algorithms security coding schemes relay systems optical systems and networks signal detection and estimation energy harvesting systems resource allocation schemes network architecture and SDM heterogeneous networks IoT Internet of Things hardware design and implementation mobility management SDN and clouds navigation tracking and localization future mobile networks

Proceedings of AC 2018 in Prague Group of Authors,2018-08-07 International Academic Conferences in Prague August 10 13 2018

Image Restoration Aymeric Histace,2012-04-04 This book represents a sample of recent contributions of researchers all around the world in the field of

image restoration The book consists of 15 chapters organized in three main sections Theory Applications Interdisciplinarity Topics cover some different aspects of the theory of image restoration but this book is also an occasion to highlight some new topics of research related to the emergence of some original imaging devices From this arise some real challenging problems related to image reconstruction restoration that open the way to some new fundamental scientific questions closely related with the world we interact with

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