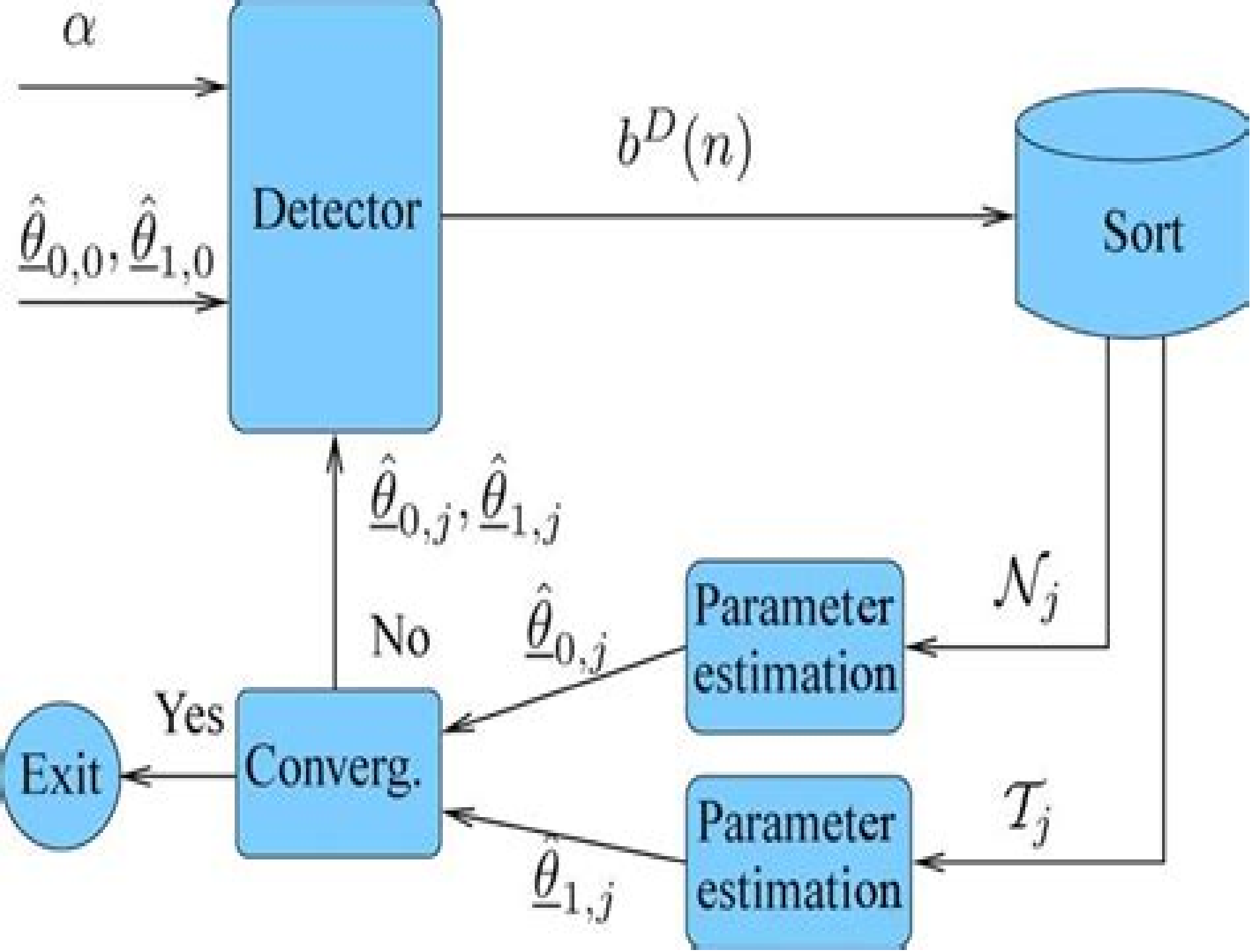
α
$\hat{\underline{\theta}}_{0,0}, \hat{\underline{\theta}}_{1,0}$
Detector
$b^D(n)$
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$\mathcal{N}_j$
Parameter estimation
No
$\hat{\underline{\theta}}_{0,j}$
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Converg.
$\mathcal{T}_j$
Parameter estimation
$\hat{\underline{\theta}}_{1,j}$

Iterative Detection

Johannes Huber (Prof. Dr.-Ing.)

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

Coding and Iterative Detection for Magnetic Recording Channels Zining Wu,2000-01-31 The advent of the internet age has produced enormous demand for in creased 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 increasing ly 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 pro cessing 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 in formation age This new book representing the Ph D dissertation work of Stanford s recent graduate Dr Zining Wu is an up to date and fo cused 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 communica tion transmission methods in recording **Base Station Cooperation Strategies for Multi-user Detection in Interference Limited Cellular Systems** Shahid Khattak,2008 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 **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 MIMOs 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 **5th International ITG Conference on Source and Channel Coding (SCC)** Johannes Huber (Prof. Dr.-Ing.),2004 **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 **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 *On Iterative Detection for Channels with Memory* Gianluigi Ferrari,Università di Pavia,2001 Detection Algorithms for Wireless Communications Gianluigi Ferrari,Giulio Colavolpe,Riccardo Raheli,2004-10-08 Presenting a unified approach to detection for stochastic channels with particular attention to wireless channels this book illustrates how the three main criteria of sequence detection symbol detection and graph based detection can all be described within a general framework *Iterative Detection* Jie Lin,2004 **Quasi-Maximum-likelihood Detection in Digital Communications** Mikalai Kisialiou,2007 **IEEE Circuits & Devices** ,2002 **Implementation and Evaluation of Iterative Detection** Lingyan Sun,2005 Detection and Modeling of 2-dimensional Signals Marcus Marrow,2004 **International ITG Conference Source and Channel Coding** ,2004 **Conference Record** ,1999 Adaptive Soft-input Soft-output Algorithms for Iterative Detection Achilleas Anastasopoulos,1999 2002 IEEE International Symposium on Information Theory ,2002 Proceedings ,2006

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