

ITERATIVE DETECTION

Adaptivity, Complexity Reduction, and Applications



by
Keith Chugg
Achilleas Anastasopoulos
Xiaopeng Chen



Kluwer Academic Publishers

Iterative Detection

Zining Wu



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Conference Proceedings, 2004 **On Iterative Detection for Channels with Memory** Gianluigi Ferrari, Università di Pavia, 2001 **2002 IEEE International Symposium on Information Theory**, 2002 **Bayesian Inference and Maximum Entropy Methods in Science and Engineering** Ali Mohammad-Djafari, 2006-12-13 The MaxEnt workshops are devoted to Bayesian inference and maximum entropy methods in science and engineering In addition this workshop included all aspects of probabilistic inference such as foundations techniques algorithms and applications All papers have been peer reviewed

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Truncated abstract The transmission of digital information over a wireless communication channel gives rise to a number of issues which can detract from the system performance Propagation effects such as multipath fading and intersymbol interference ISI can result in significant performance degradation Recent developments in the field of iterative detection have led to a number of powerful strategies that can be effective in mitigating the detrimental effects of wireless channels In this thesis iterative detection is considered for use in two distinct areas of wireless communications The first considers the iterative decoding of concatenated block codes over slow flat fading wireless channels while the second considers the problem of detection for a coded communications system transmitting over highly dispersive frequency selective wireless channels The iterative decoding of concatenated codes over slow flat fading channels with coherent signalling requires

knowledge of the fading amplitudes known as the channel state information CSI. The CSI is combined with statistical knowledge of the channel to form channel reliability metrics for use in the iterative decoding algorithm. When the CSI is unknown to the receiver, the existing literature suggests the use of simple approximations to the channel reliability metric. However, these works generally consider low rate concatenated codes with strong error correcting capabilities. In some situations, the error correcting capability of the channel code must be traded for other requirements such as higher spectral efficiency, lower end-to-end latency, and lower hardware cost. In particular, when the error correcting capabilities of the concatenated code are weak, the conventional metrics are observed to fail, whereas the proposed metrics are shown to perform well regardless of the error correcting capabilities of the code. The effects of ISI caused by a frequency selective wireless channel environment can also be mitigated using iterative detection. When the channel can be viewed as a finite impulse response (FIR) filter, the state-of-the-art iterative receiver is the maximum a posteriori probability (MAP) based turbo equaliser. However, the complexity of this receiver's MAP equaliser increases exponentially with the length of the FIR channel. Consequently, this scheme is restricted for use in systems where the channel length is relatively short. In this thesis, the use of a channel shortening prefilter in conjunction with the MAP based turbo equaliser is considered in order to allow its use with arbitrarily long channels. The prefilter shortens the effective channel, thereby reducing the number of equaliser states. A consequence of channel shortening is that residual ISI appears at the input to the turbo equaliser, and the noise becomes coloured. In order to account for the ensuing performance loss, two simple enhancements to the scheme are proposed. The first is a feedback path which is used to cancel residual ISI based on decisions from past iterations. The second is the use of a carefully selected value for the variance of the noise assumed by the MAP based turbo equaliser. Simulations are performed over a number of highly dispersive channels, and it is shown that the proposed enhancements result in considerable performance improvements. Moreover, these performance benefits are achieved with very little additional complexity with respect to the unmodified channel shortened turbo equaliser.

Coding and Channel Estimation for Block Fading Channels
Salam A. Zummo, 2003 Annales des télécommunications, 2005 1997 IEEE International Symposium on Information Theory
IEEE Information Theory Society, IEEE International Symposium on Information Theory, 1997-06. This proceeding covers topics such as universal source coding, estimation, cyclic codes, multi-user channels, synchronization, CDMA sequences, pattern recognition, and estimation and signal processing techniques. Applications to communications channels and recovery from faults are described.

The Journal of the Acoustical Society of America
Acoustical Society of America, 2001 U.S. Government Research & Development Reports, 1970

Effective Signal Processing Algorithms for Packet Retransmission Diversity
Harvind Singh Samra, 2004 **Dissertation Abstracts International**, 2007 **Information Engineering**
Robert Mylles, 1994-01-11. By revolutionizing the way in which information is collected, processed, stored, and distributed, information engineering (IE) and computer-aided software engineering (CASE) are helping to fuel the race to make

businesses more competitive efficient and productive Entire organizations have been radically restructured thanks to the fact that IE and CASE now make information directly accessible throughout an organization without being distilled through multiple layers of management But good intentions and dollars spent are no guarantee of success and any technology old or new is only as good as the managers who manage it and the staff who uses it Information systems rarely fail because of technical inadequacies Usually the failure stems from a lack of staff expertise in how to apply the basic concepts and principles of new technologies to the unique organizational milieu Information Engineering was designed to assist managers and information workers in high tech companies to successfully integrate and maintain computer aided software programs into their organization s engineering information system It provides step by step guidance to the assessment of a company s specific needs and to the implementation of systems tailored to the company s business goals And it describes how commercially available CASE packages can be successfully combined with engineering systems developed in house By following the proven training techniques found in this book managers will quickly develop staffs fully versed in planning designing analyzing and constructing integrated information systems that support complex manufacturing and supply operations or any high tech business that relies heavily upon the rapid information exchange of complex technical information

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Table of Contents Iterative Detection

1. Understanding the eBook Iterative Detection
 - The Rise of Digital Reading Iterative Detection
 - Advantages of eBooks Over Traditional Books
2. Identifying Iterative Detection
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Iterative Detection
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iterative Detection
 - Personalized Recommendations
 - Iterative Detection User Reviews and Ratings
 - Iterative Detection and Bestseller Lists
5. Accessing Iterative Detection Free and Paid eBooks
 - Iterative Detection Public Domain eBooks
 - Iterative Detection eBook Subscription Services
 - Iterative Detection Budget-Friendly Options
6. Navigating Iterative Detection eBook Formats

- ePub, PDF, MOBI, and More
- Iterative Detection Compatibility with Devices
- Iterative Detection Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iterative Detection
 - Highlighting and Note-Taking Iterative Detection
 - Interactive Elements Iterative Detection
- 8. Staying Engaged with Iterative Detection
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iterative Detection
- 9. Balancing eBooks and Physical Books Iterative Detection
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iterative Detection
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Iterative Detection
 - Setting Reading Goals Iterative Detection
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iterative Detection
 - Fact-Checking eBook Content of Iterative Detection
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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