

ITERATIVE DETECTION

Adaptivity, Complexity Reduction, and Applications



by
Keith Chugg
Achilleas Anastasopoulos
Xiaopeng Chen



Kluwer Academic Publishers

Iterative Detection

Ensheng Dong

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Iterative Detection Processes M. S. Raja, 1981 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.

IEEE Circuits & Devices, 2002 **Quasi-Maximum-likelihood Detection in Digital Communications** Mikalai Kisialiou, 2007 On Iterative Detection for Channels with Memory Gianluigi Ferrari, Università di Pavia, 2001 Proceedings, 2006 Conference Record, 2001 Conference Proceedings, 2004

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.

Dissertation Abstracts International, 2008 Journal of Southeast University, 2007 Annales des télécommunications, 2006 **International ITG Conference Source and Channel Coding**, 2004 Recommended Promotions to the Ranks of Professor and Associate Professor University of Michigan. Office of the Provost and Vice President for Academic Affairs, 2005 Technical Program Conference Record, 2002 Detection and Modeling of 2-dimensional Signals Marcus Marrow, 2004

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1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Iterative Detection
- Chapter 2: Essential Elements of Iterative Detection
- Chapter 3: Iterative Detection in Everyday Life
- Chapter 4: Iterative Detection in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Iterative Detection. This chapter will explore what Iterative Detection is, why Iterative Detection is vital, and how to effectively learn about Iterative Detection.
3. In chapter 2, the author will delve into the foundational concepts of Iterative Detection. The second chapter will elucidate the essential principles that need to be understood to grasp Iterative Detection in its entirety.
4. In chapter 3, this book will examine the practical applications of Iterative Detection in daily life. This chapter will showcase real-world examples of how Iterative Detection can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Iterative Detection in specific contexts. The fourth chapter will explore how Iterative Detection is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Iterative Detection. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Iterative Detection.

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