

# Space-Time Block Coding for Wireless Communications: Performance Results

Vahid Tarokh, *Member, IEEE*, Hamid Jafarkhani, *Member, IEEE*, and A. Robert Calderbank, *Fellow, IEEE*

**Abstract**—We document the performance of space-time block codes [13], [14], which provide a new paradigm for transmission over Rayleigh fading channels using multiple transmit antennas. Data is encoded using a space-time block code, and the encoded data is split into  $n$  streams which are simultaneously transmitted using  $n$  transmit antennas. The received signal at each receive antenna is a linear superposition of the  $n$  transmitted signals perturbed by noise. Maximum likelihood decoding is achieved in a simple way through despreading of the signals transmitted from different antennas rather than joint detection. This uses the orthogonal structure of the space-time block code and gives a maximum likelihood decoding algorithm which is based only on linear processing at the receiver. We review the encoding and decoding algorithms for various codes and provide simulation results demonstrating their performance. It is shown that using multiple transmit antennas and space-time block coding provides remarkable performance at the expense of almost no extra processing.

**Index Terms**—Diversity, multipath channels, multiple antennas, space-time codes, wireless communication.

## I. INTRODUCTION

**I**N MOST situations, the wireless channel suffers attenuation due to destructive addition of multipaths in the propagation media and to interference from other users. The channel statistic is significantly often Rayleigh which makes it difficult for the receiver to reliably determine the transmitted signal unless some less attenuated replica of the signal is provided to the receiver. This technique is called diversity, which can be provided using temporal, frequency, polarization, and spatial resources [3], [6], [7]–[9], [11], [16], [17]. In many situations, however, the wireless channel is neither significantly time-variant nor highly frequency selective. This forces the system engineers to consider the possibility of deploying multiple antennas at both the transmitter and receiver to achieve spatial diversity.

Only recently has transmit diversity been studied extensively as a method of combating detrimental effects in wireless fading channels because of its relative simplicity of implementation and feasibility of having multiple antennas at the base station. The first bandwidth efficient transmit diversity scheme was proposed by Wittneben [18], and it includes the delay diversity scheme of Seshadri and Winters [10] as a special

case. Later Foschini introduced a multilayered space-time architecture [4].

More recently, space-time trellis coding has been proposed [12] which combines signal processing at the receiver with coding techniques appropriate to multiple transmit antennas and provides significant gain over [10] and [18]. Specific space-time trellis codes designed for two–four transmit antennas perform extremely well in slow fading environments (typical of indoor transmission) and come within 2–3 dB of the outage capacity computed by Telatar [15] and independently by Foschini and Gans [5]. The bandwidth efficiency is about three–four times that of current systems. The space-time codes presented in [12] provide the best possible tradeoff between constellation size, data rate, diversity advantage, and trellis complexity. When the number of transmit antennas is fixed, the decoding complexity of space-time trellis coding (measured by the number of trellis states in the decoder) increases exponentially as a function of both the diversity level and the transmission rate.

In addressing the issue of decoding complexity, Alamouti discovered a remarkable scheme for transmission using two transmit antennas [1]. Space-time block coding, introduced in [13] and [14], generalizes the transmission scheme discovered by Alamouti to an arbitrary number of transmit antennas and is able to achieve the full diversity promised by the transmit and receive antennas. These codes retain the property of having a very simple maximum likelihood decoding algorithm based only on linear processing at the receiver [13], [14]. For real signal constellations (such as PAM), they provide the maximum possible transmission rate allowed by the theory of space-time coding [12]. For complex constellations, space-time block codes can be constructed for any number of transmit antennas, and again these codes have remarkably simple decoding algorithms based only on linear processing at the receiver. They provide full spatial diversity and half of the maximum possible transmission rate allowed by the theory of space-time coding. For complex constellations and for the specific cases of three and four transmit antennas, these diversity schemes were improved to provide 3/4 of the maximum possible transmission rate [13], [14].

The purpose of this paper is to evaluate the performance of the space-time block codes constructed in [13] and [14] and to provide the details of the encoding and decoding procedures. We begin by considering encoding and decoding algorithms for some of these codes. We then provide simulation results confirming that with space-time block coding and

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V. Tarokh and A. R. Calderbank are with AT&T Labs-Research, Florham Park, NJ 07932 USA.

H. Jafarkhani is with AT&T Labs-Research, Red Bank, NJ 07701 USA.

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### **Table of Contents Space Time Block Coding Mit**

1. Understanding the eBook Space Time Block Coding Mit
  - The Rise of Digital Reading Space Time Block Coding Mit
  - Advantages of eBooks Over Traditional Books
2. Identifying Space Time Block Coding Mit
  - 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 Space Time Block Coding Mit
  - User-Friendly Interface
4. Exploring eBook Recommendations from Space Time Block Coding Mit
  - Personalized Recommendations
  - Space Time Block Coding Mit User Reviews and Ratings
  - Space Time Block Coding Mit and Bestseller Lists

5. Accessing Space Time Block Coding Mit Free and Paid eBooks
  - Space Time Block Coding Mit Public Domain eBooks
  - Space Time Block Coding Mit eBook Subscription Services
  - Space Time Block Coding Mit Budget-Friendly Options
6. Navigating Space Time Block Coding Mit eBook Formats
  - ePub, PDF, MOBI, and More
  - Space Time Block Coding Mit Compatibility with Devices
  - Space Time Block Coding Mit Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Space Time Block Coding Mit
  - Highlighting and Note-Taking Space Time Block Coding Mit
  - Interactive Elements Space Time Block Coding Mit
8. Staying Engaged with Space Time Block Coding Mit
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Space Time Block Coding Mit
9. Balancing eBooks and Physical Books Space Time Block Coding Mit
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Space Time Block Coding Mit
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Space Time Block Coding Mit
  - Setting Reading Goals Space Time Block Coding Mit
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Space Time Block Coding Mit
  - Fact-Checking eBook Content of Space Time Block Coding Mit
  - 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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