

Project Title

A Project Report submitted to the
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
JAHANGIRNAGAR UNIVERSITY

DECEMBER 2015

Abstract

Write your abstract here.....

Declaration

The research work entitled “**PROJECT TITLE**” has been carried out in the Department of Computer Science and Engineering, Jahangirnagar University is original and conforms the regulations of this University.

I understand the University’s policy on plagiarism and declare that no part of this project has been copied from other sources or been previously submitted elsewhere for the award of any degree or diploma.

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Acknowledgement

Write your acknowledgement here.....

CONTENTS

Abstract	ii
Declaration	iii
Acknowledgement	iv
List of Figures	vii
List of Tables	viii
List of Symbols	ix
List of Algorithms	x
1 Introduction	1
1.1 Background and Motivation	1
1.2 Objective	2
1.3 Research Problem	2
1.4 Contribution	4
1.5 Thesis Organization	4
2 Literature Review	6
2.1 Multiple Input and Multiple Output (MIMO) System	6
2.2 Linear Block Code	10
2.2.1 Space Time Block Code.....	10
3 System Model	28
3.1 Derivation of the Trace of Complex Channel Matrix	28
3.1.1 Derivation of Expectation for Gaussian Fading Channel	33

4 Experiments	36
4.1 Low SNR Analysis of Gaussian Fading Channel.....	36
4.1.1 Gaussian Fading SM MIMO System.....	36
4.2 Low SNR Analysis of Weibull Fading Channel	40
5 Conclusion	57
1.1 Summary.....	1
1.2 Future Work.....	2
References	58

LIST OF FIGURES

1.1: Performance of wireless channel under awgn environment taking service time as a parameter	1
2.2: Space Time Block Code (Matrix Format)	10
2.3: Multiple Input Single Output (MISO) for 2 antennal case	11
3.1: Block diagram of Alamouti Scheme	12
4.1: Two way Space Time Block Code	12

LIST OF TABLES

1.1: Units for Magnetic Properties	2
2.2: Summary of Parameters of Different Space-Time Block Codes	16
3.1: Moment of Four Fading Channels	52

LIST OF SYMBOLS

<i>Symbol</i>	<i>Description</i>
\mathbf{H}	Random MIMO Channel Matrix
$E\{\cdot\}$	Expectation
$(\cdot)^+$	Hermitian Transposition
$E[\text{trace}(\mathbf{H}^+\mathbf{H})]$	Expectation of the trace of complex channel matrix $(\mathbf{H}^+\mathbf{H})$
$E[\text{trace}\{(\mathbf{H}^+\mathbf{H})^2\}]$	Expectation of the trace of complex channel matrix $(\mathbf{H}^+\mathbf{H})^2$
$E[x^k]$	k^{th} Moment of the MIMO Channel
$\frac{E_b}{N_{0 \min}}$	Minimum Normalized Transmit Energy per Information Bit
$\frac{E_b}{N_0}$	Normalized Transmit Energy per Information Bit
S_0	Wideband Slope
R_c	Code Rate in bits/s/Hz
$C\left(\frac{E_b}{N_0}\right)$	Shannon's capacity function with respect to E_b/N_0
μ	Mean of Gaussian random variable
σ	Standard deviation
λ	Scale Parameter
m	Shape Parameter
$\Gamma(x)$	Gamma function
γ_{av}	Ratio of shape and spread parameter
k	Constant

LIST OF ALGORITHMS

2.1: Algorithm_Name	11
2.2: Algorithm_Name	16
3.1: Algorithm_Name	52

Chapter 1

Introduction

Write intro here [1]. Write intro here.

1.1 Testing

1.1.1 Testing

Each figure must be referred in literature like ‘fig. 1.1.’. All figures and graph must be in gray scale except some special cases.

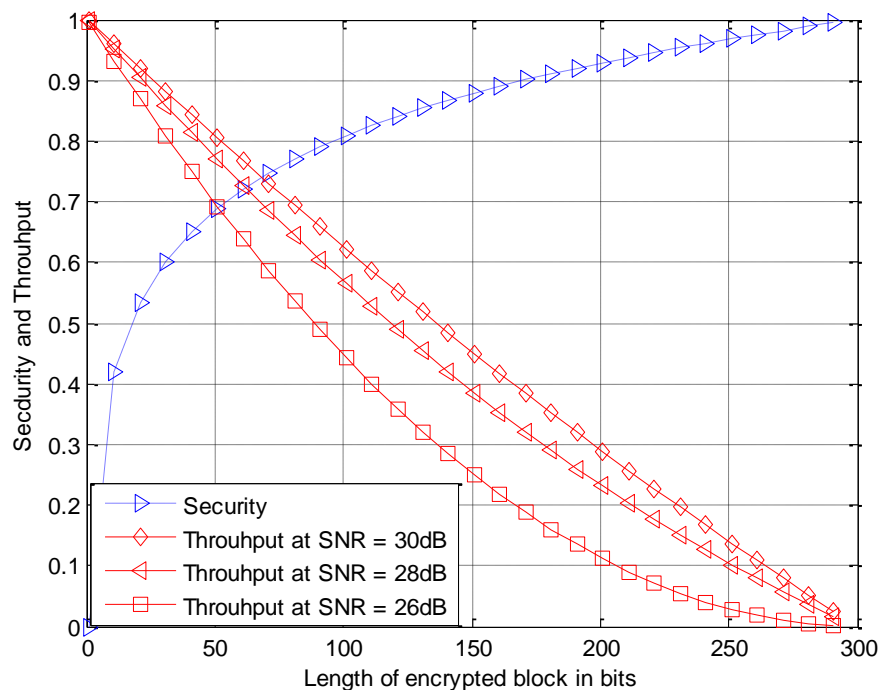


Fig. 1.1 Performance of wireless channel under awgn environment taking service time as a parameter

The figure must be numbered like above with title. The figure should be referred in literature like, ‘the profile of throughput and security level is shown in fig.1.1’. All figures and graph must be in gray scale except some special cases.

TABLE 1.1
UNITS FOR MAGNETIC PROPERTIES

SYMBOL	QUANTITY	CONVERSION FROM GAUSSIAN AND CGS EMU TO SI ^A
Φ	magnetic flux	1 Mx $\rightarrow 10^{-8}$ Wb = 10^{-8} V·s
B	magnetic flux density, magnetic induction	1 G $\rightarrow 10^{-4}$ T = 10^{-4} Wb/m ²
H	magnetic field strength	1 Oe $\rightarrow 10^3/(4\pi)$ A/m
μ_r	relative permeability	$\mu \rightarrow \mu_r$
w, W	energy density	1 erg/cm ³ $\rightarrow 10^{-1}$ J/m ³
N, D	demagnetizing factor	1 $\rightarrow 1/(4\pi)$

Table must have both number and title and must be mentioned in literature. All tables, graphs and figures must be centered.

The following Equations: 10 points 12 points

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \tag{1.1}$$

All mathematical variables must be in italic, vectors and matrix in bold phase in the literature. Equations must be left aligned but their numbers must touch the right end of the lines. All characters in literature must be in Times New Romans 12 points font and subscripts/superscripts in 10 pints font.

Chapter 2

Literature Review

Write review here [1]. Write review here.

2.1 Testing

2.1.1 Testing

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