

Table of Contents

CHAPTER I	7
BLOCKCHAIN.....	7
A Brief History	7
The Concept of Blockchain.....	8
Blockchain Architecture	9
How Blockchain works	11
Security in Blockchain	12
CHAPTER II	14
Introduction	14
Structure of Bitcoin	14
How Bitcoin works	14
Technical Challenges and Security issues.....	19
PROBLEM STATEMENT	22
CONTRIBUTION.....	22
ORGANIZATION	23
CHAPTER III	24
OVERVIEW OF PROPAGATION MECHANISMS	24
ANALYTICAL STUDIES ON PROPAGATION DELAY	25
Negative Factors on Propagation Delay:.....	25
Threats and obstacles due to propagation delay:.....	26
COUNTERMEASURES	27
CONCLUSION	42
CHAPTER IV	43
INTRODUCTION	43
PROPOSED METHOD	43
THE MODEL EXPLANATION.....	44
Standard Protocol:	45
Proposed Protocol:.....	45
IMPLEMENTATION DETAILS.....	47
EVALUATION AND PERFORMANCE.....	48
Throughput	48
Delay of Time	49
Transaction delivery ratio (TDR).....	50
CONCLUSION AND FUTURE WORK.....	52
REFERENCES	53