

LIST OF CONTENTS

APPROVAL PAGE	Error! Bookmark not defined.
SELF DECLARATION AGAINST PLAGIARISM .	Error! Bookmark not defined.
ABSTRACT	Error! Bookmark not defined.
PREFACE	Error! Bookmark not defined.
DEDICATION	Error! Bookmark not defined.
LIST OF CONTENTS	viii
LIST OF FIGURE	Error! Bookmark not defined.
LIST OF TABLE.....	Error! Bookmark not defined.
1	xi
INTRODUCTION	Error! Bookmark not defined.
1.1 Background	Error! Bookmark not defined.
1.2 Problem Identification	Error! Bookmark not defined.
1.3 Formulation.....	Error! Bookmark not defined.
1.4 Scope of Problems	Error! Bookmark not defined.
1.5 Objective.....	Error! Bookmark not defined.
1.6 Hypotheses	Error! Bookmark not defined.

1.7	Methodologi	Error! Bookmark not defined.
1.8	Writing organization	Error! Bookmark not defined.
2	Error! Bookmark not defined.
LITERATURE REVIEW..		Error! Bookmark not defined.
2.1	Detection theory	Error! Bookmark not defined.
2.2	Basic of signal detection ..	Error! Bookmark not defined.
2.3	Deflection Coefficient.....	Error! Bookmark not defined.
2.4	Statistic Test	Error! Bookmark not defined.
2.5	Matched Filter Detector ...	Error! Bookmark not defined.
2.6	Energy Detector.	Error! Bookmark not defined.
2.7	Feature Detection.....	Error! Bookmark not defined.
2.8	Detectors based on second-order statistics.	Error! Bookmark not defined.
2.9	Contribution	Error! Bookmark not defined.
3	Error! Bookmark not defined.
BASIC THEORY		Error! Bookmark not defined.
3.1	Cognitive Radio.	Error! Bookmark not defined.

- 3.2 Digital Modulation 16-QAM . **Error! Bookmark not defined.**
- 3.3 OFDM (Orthogonal Frequency Division Multiplexing) **Error! Bookmark not defined.**
- 3.4 Cyclic Prefix..... **Error! Bookmark not defined.**
- 3.5 GLRT (Generalized Likelihood Ratio Test) **Error! Bookmark not defined.**
- 3.6 Bootstrap..... **Error! Bookmark not defined.**

4 **Error! Bookmark not defined.**

SYSTEM MODEL AND SIMULATION.....**Error! Bookmark not defined.**

- 4.1 Spectrum Sensing **Error! Bookmark not defined.**
- 4.2 Transmitter Block..... **Error! Bookmark not defined.**
- 4.3 Source **Error! Bookmark not defined.**
- 4.4 Modulation Mapper **Error! Bookmark not defined.**
- 4.5 OFDM Modulation..... **Error! Bookmark not defined.**

4.6	Cyclic Prefix insertion	Error! Bookmark not defined.
4.7	Transmission Channel.....	Error! Bookmark not defined.
4.8	GLRT Algorithm	Error! Bookmark not defined.
4.9	GLRT detector with bootstrap approach....	Error! Bookmark not defined.
4.10	Simulation Parameters	Error! Bookmark not defined.
4.11	Performance measurement of GLRT detector with bootstrap approach ..	Error! Bookmark not defined.
5	Error! Bookmark not defined.
RESULTS AND ANALYSIS		Error! Bookmark not defined.
5.1	Effect of Cyclic Prefix length.	Error! Bookmark not defined.
5.2	Effect of OFDM symbol number.....	Error! Bookmark not defined.
5.3	Effect of bootstrap resample number	Error! Bookmark not defined.
5.4	Probability of miss detection vs SNR on certain noise	Error! Bookmark not defined.

5.5	Probability of miss detection vs SNR on uncertainty noise 1 dB	Error! Bookmark not defined.
5.6	Probability of detection vs Probability of false alarm.....	Error! Bookmark not defined.
6	Error! Bookmark not defined.
CONCLUSION AND RECOMMENDATION.....		Error! Bookmark not defined.
Bookmark not defined.		
6.1	Conclusion	Error! Bookmark not defined.
6.2	Recommendation	Error! Bookmark not defined.
LIST OF SYMBOL		Error! Bookmark not defined.
REFERENCE		Error! Bookmark not defined.

