## **CONTENTS**

CHAPTER	NAME	PAGE
1	INTRODUCTION	1
2	BACKGROUND	3
	2.1 Intrusion- An overview 2.1.1 Intrusion classes	3 3
	2.2 Intrusion Detection System 2.2.1 Information sources 2.2.2 Analysis 2.2.3 Response	3 4 4 4
	2.3 IDS Classification 2.3.1 Based on information source 2.3.1.1 Network-Based IDSs 2.3.1.2 Host-Based IDSs 2.3.1.3 Application-Based IDSs 2.3.2 Based on Analysis 2.3.2.1 Misuse Detection 2.3.2.2 Anomaly Detection	5 5 5 6 8 9 9
	2.4 Data Mining Techniques	11
3	LITERATURE SURVEY	13
	3.1 Intrusion Detection Systems 3.2 Discussions	13 18
4*	PROPOSED ALGORITHM	19
5	EXPERIMENTAL RESULTS	22
	5.1 Dataset 5.1.1 Data Preprocessing	22 25
	5.2 Performance Evaluation	26
	5.3 Results	27
6	CONCLUSION	29
	REFERENCES	30

	List of Tables	Pages
Table 1	Basic characteristics of the KDD 99 intrusion detection datasets in terms of number of samples	23
Table 2	A complete listing of the set of features defined for the connection records along with their description and type	24
Table 3	The performance of the algorithm on the dataset	27
Table 4	Performance of individual attack classes	28
	List of Figures	Pages
Figure 1	ROC curve showing the result of the proposed algorithm	28