

Table of Contents

Title	Page
Certificates.....	i-iii
Declaration.....	iv
Acknowledgement	v
Abstract	vi
1. Introduction.....	4-6
1.1. Motivation.....	5
1.2. Organization of the report.....	5-6
2. Mobile Ad hoc Network and Leader Election.....	7-30
2.1. Introduction to Mobile Ad hoc Network.....	7-10
2.1.1. Characteristics of MANET.....	9
2.1.2. Application of MANET.....	10
2.2. Generation of MANET.....	11-12
2.3. Routing protocols for MANET.....	12-18
2.4. Leader Election in MANET.....	18-29
2.4.1. Classical Leader Election Algorithm.....	18-21
2.4.2. Leader Election in ad hoc networks.....	21-30
3. Trust in MANET.....	31-35
3.1. Trust concept.....	31-32
3.2. Trust model in MANET.....	32-35
4. Related Works.....	36-41
4.1.Identifier-based clustering.....	36-38
4.2. Highest connectivity clustering algorithm.....	38

4.3. Mobility-aware clustering.....	38-39
4.4. Least cluster change algorithm.....	40
4.5. Power-aware clustering.....	40-41
5. Proposed work and algorithm.....	42-52
5.1.Preludes.....	42-43
5.2.Design of the algorithm.....	43-49
5.3.Simulation and results.....	49-54
6. Conclusion and future works.....	55
Bibliography.....	56-60

List of Table

Table 1.....	48
Table 1.....	49
Table 3.....	50

List of Figure

Figure 1a.....	46
Figure 1b.....	46
Figure 2	50
Figure 3	51
Figure 4	49
Figure 5	52
Figure 6.....	53