

## LIST OF FIGURES

Figure 1. Failure Recovery Algorithm.....	11
Figure 2. Scenario Failure.....	11
Figure 3. Scenario Failure OpenFlow Lost.....	12
Figure 4. Scenario Failure SDN.....	12
Figure 5. Research Methodology.....	13
Figure 6. Design Process of Proposed Failover.....	14
Figure 7. Topology Distributed SDN with Three Controller.....	15
Figure 8. Topology Distributed SDN with One Failure Controller.....	20
Figure 9. Topology Distributed SDN with Two Failure Controller.....	21
Figure 10. Topology Distributed SDN with One Failure Controller.....	23
Figure 11. Slave controller switch to master controller.....	23
Figure 12. Switch PING to C0.....	24
Figure 13. Topology Linear with 2 Controller Failure.....	25
Figure 14. Two Controller Failure.....	26
Figure 15. Switch PING to C0 and C1.....	26
Figure 16. Graph of Network Size - One Controller Failure.....	28
Figure 17. Graph of Network Size Host - One Controller Failure.....	28
Figure 18. Graph of Network Size - Two Controller Failure with 500mbps.....	29
Figure 19. Graph of Network Size - Two Controller Failure with 750mpbs.....	29
Figure 20. Graph of Network Size - Two Controller Failure with 900mpbs.....	30
Figure 21. Graph of Network Size Host – Two Controller Failure.....	30