LIST OF FIGURES

1.1	Perfect, fast and slow clocks	3
1.2(a)	Clock Drift –Time difference with the Reference clock	4
1.2(b)	Clock Drift –Time difference with the Reference clock	4
1.3	Accuracy and Precision	6
3.1	A simple two-step Markov Chain	36
3.2	Random Walk Tree	41
4.1	Distribution of good and bad clock value	45
4.2	Extreme distribution of good and bad clock values	45
4.3	Working of a Clock and re-synchronization period	48
4.4	Graph of Variance	49
4.5	Pictorial description of working of WASA	52
4.5	Clock values distribution for worst case scenario	54
4.6	Concentration of clocks in Worst-case clock distribution	57
4.7	Normal Distribution	58
5.1	Performance of WASA in low fault environment	74
5.2	Performance of WASA in fault prone environment	75
5.3	Relationship of Precision and bad clocks	76
5.4	Relationship of Precision and Malicious clocks	77
5.5	Performance of WASA and SWA in presence of	
malicious fault		
5.6	Convergence of time at various environment	80
6.1	Network Architecture	89

6.2	Synchronization Timeline94
6.4	Timeline for one Sub_sync period
7.1	Network Diagram of AWASA
7.2	Time line within a resynchronization period
7.3	Synchronization in Low Combined Fault Environment113
7.4	Synchronization in High Combined Fault Environment114
7.5	Synchronization in presence of bad clocks116
7.6	Synchronization in presence of malicious clocks117