

LIST OF FIGURES

2.1	Architecture of Artificial Neural Networks	14
2.2	Architecture of Long Short Term Memory	15
3.1	Main block diagram of bus travel time prediction system	20
3.2	First derivative block diagram of bus travel time prediction system .	20
3.3	First derivative block diagram of evaluation matrix	21
3.4	Second derivative block diagram of bus travel time prediction sys- tem (Data Processing)	21
3.5	Second derivative block diagram of bus travel time prediction sys- tem (Algorithm)	21
3.6	Data collection method	25
4.1	Predicted value diagram against actual value	31
4.2	Diagram of MAE values for each sample	32
4.3	Diagram mapping predicted values against actual values	33
4.4	Diagram comparing predicted values and actual values for each index	34
4.5	Comparison diagram of validation loss and training loss values . . .	35
4.6	Diagram mapping the residual values of each prediction	36
4.7	Diagram comparing predicted values and actual values for each index	37
4.8	Diagram mapping predicted values against actual values	38
4.9	Diagram to show the training loss and testing loss	39
4.10	Diagram mapping comparison of actual value and prediction value in every index	40
4.11	Diagram mapping error distribution	41