

## List of Tables

4.1	Artery Road Data . . . . .	26
4.2	Collector Road Data . . . . .	26
4.3	Ambulance Data . . . . .	27
4.4	Police Data . . . . .	28
4.5	Fire Brigade Data . . . . .	29
4.6	Queue initialization for Classifying 1NN . . . . .	34
4.7	Queue Initialization for Determining Kth-Nearest Emergency Unit . . . . .	37
4.8	PQ after Vertex 332's $g_{adj}$ inserted . . . . .	37
4.9	Hospital Data . . . . .	38
5.1	Adjacency Generator Result for Police Unit . . . . .	41
5.2	Adjacency Generator Result for Ambulance Unit . . . . .	42
5.3	Adjacency Generator Result for Fire Brigade Unit . . . . .	43
5.4	Execution Time Comparison between kth N-NVD and basic KNN	46