

## List of Tables

3.1	Highest Order Voronoi diagram data structure . . . . .	16
4.1	The dataset that used in the minor thesis . . . . .	25
5.1	Real structure of point structure name . . . . .	34
5.2	Real structure of bisector structure name . . . . .	34
5.3	Real structure of vertex structure name . . . . .	34
5.4	Real structure of segment structure name . . . . .	34
5.5	Real structure of region structure name . . . . .	35
5.6	Real structure of label structure name . . . . .	35
5.7	The number of dataset used . . . . .	35
5.8	Number of partition execution time comparison . . . . .	36
5.9	Execution time comparison . . . . .	36
5.10	FLIP* on Spark percentage faster compared to LAM no Spark .	37
5.11	FLIP no Spark percentage faster compared to FLIP* on Spark .	38
5.12	Labelling process comparison in execution time . . . . .	39
5.13	Centroid Labelling percentage faster compared to Flip . . . . .	39
5.14	Centroid Labelling on Spark percentage faster compared to Centroid labelling on LAM . . . . .	40
5.15	Region construction and region labelling comparison in execution time . . . . .	41
5.16	Labelling process percentage faster compared to region construction on Apache Spark . . . . .	42