

Table A. Intersection locations for case study

City	Central Point of intersection	First joint lane	Second joint lane	Third joint lane	Fourth joint lane
Bangalore	12.927586, 77.620986	12.9265501, 77.6233957	12.9314700, 77.6225213	12.925481, 77.620000	12.929585, 77.615430
Bangalore	12.944002, 77.607617	12.944413, 77.602810	12.940427, 77.609108	12.943953, 77.610095	12.948540, 77.606238
Bangalore	12.937257, 77.626919	12.938470, 77.629140	12.935437, 77.628700	12.935302, 77.624494	12.939829, 77.625449
Bangalore	12.906530, 77.573286	12.906500, 77.578314	12.9114566, 77.5728427	12.903425, 77.573207	12.9080021, 77.5708470
Delhi	28.598336, 77.063563	28.596485, 77.067138	28.6005145, 77.0662255	28.600838, 77.059753	28.594913, 77.060627
Delhi	28.594907, 77.071801	28.593504, 77.077423	28.590828, 77.069302	28.596480, 77.067317	28.600644, 77.071217
Delhi	28.591492, 77.057709	28.5889297, 77.0615285	28.594921, 77.060563	28.595241, 77.052109	28.588091, 77.054812
Delhi	28.601795, 77.042249	28.599195, 77.046143	28.604470, 77.045934	28.6036413, 77.0395181	28.597311, 77.038445

Table B. Data analysis for congestion value and status

	Inter-section-1	Inter-section-2	Inter-section-3	Inter-section-4	Inter-section-5	Inter-section-6	Inter-section-7	Inter-section-8
Avg. ETA time	771	763	831	879	662	766	693	555
Run-1								
Avg. ETA real time	619.134	611.3	690.967	779.7	622.334	689.967	620.1	491
Avg. CV	-151.866	-151.7	-140.033	-99.3	-39.666	-76.033	-72.9	-64
Level-1	9	2	19	20	14	21	10	15
Level-2	11	22	8	4	8	5	14	11
Level-3	10	6	3	6	8	4	6	4
Standard deviation for CV	21.1104	18.18818	70.06972	35.0249	48.7287	62.30275	27.35245	14.1185
Median for CV	-148.5	-154	-159	-109.5	-43	-81	-70	-68.5
Run-2								
Avg. ETA real time	696.2759	684.4483	904.7241	828.966	735.931	918.241	715.4483	545.7242
Avg. CV	-74.7241	-78.5517	73.7241	-50.034	73.931	152.241	22.4483	-9.2758
Level-1	18	6	17	19	8	11	15	12
Level-2	7	14	6	7	18	13	12	15
Level-3	4	9	6	3	3	5	3	2
Standard deviation for CV	28.5559	24.86874	84.62897	37.5173	56.729	86.56855	43.68665	17.52416
Median for CV	-83	-74	48	-54	86	150	16	-8
Run-3								
Avg. ETA real time	689.6667	701.2334	1110.633	807.567	763.3	946.867	878.867	1290.633
Avg. CV	-81.3333	-61.7666	279.633	-71.433	101.3	180.867	185.867	735.633
Level-1	10	27	13	21	18	17	13	9
Level-2	10	2	12	7	7	10	7	6

Level-3	10	1	5	2	5	3	10	15
Standard deviation for CV	33.1132	22.81781	226.1313	47.3467	46.8978	136.6791	76.92669	419.4567
Median for CV	-76	-66	324	-89.5	88	156	169.5	890