

Result metrics for known environments

TABLE I
METRICS OF RRT*

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	937.654	16.536	0.116	100
Run 2	1068.024	17.42	0.11	100
Run 3	595.502	16.149	0.084	100
Average	867.06	16.702	0.103	100

TABLE II
METRICS OF A*

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	886.078	9281.834	0.439	0
Run 2	887.151	9281.834	0.439	0
Run 3	887.723	9281.834	0.439	0
Average	886.984	9281.834	0.439	0

TABLE III
METRICS OF CoSAP IN KNOWN ENVIRONMENT

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	185.98	18.816	0.055	100
Run 2	100.011	18.816	0.055	100
Run 3	185.98	18.816	0.055	100
Average	157.324	18.816	0.055	100

Comparison & graphs

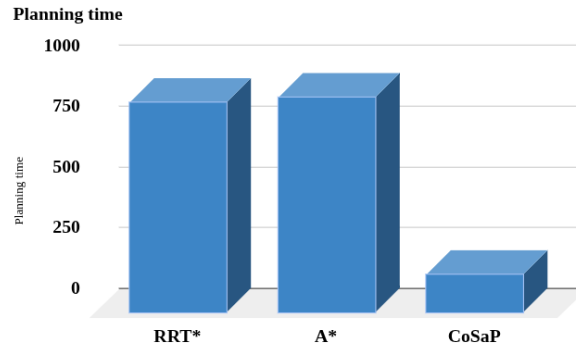


TABLE IV

AVERAGE METRICS COMPARISON IN KNOWN ENVIRONMENT FOR PLANING TIME

MODEL	RRT*	A*	CoSaP
Planning time	867.06	886.984	157.324

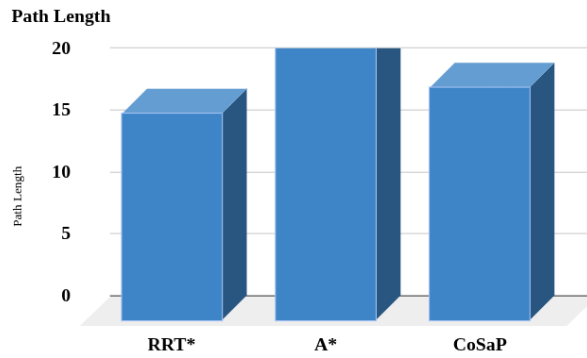


TABLE V

AVERAGE METRICS COMPARISON IN KNOWN ENVIRONMENT FOR PATH LENGTH

MODEL	RRT*	A*	CoSaP
Path length	16.702	19.281834	18.816

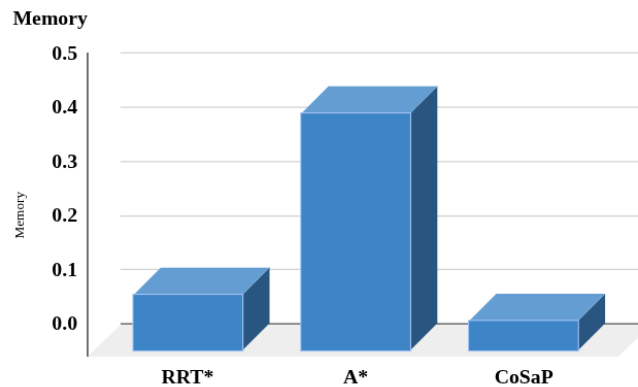


TABLE VI

AVERAGE METRICS COMPARISON IN KNOWN ENVIRONMENT FOR MEMORY

MODEL	RRT*	A*	CoSaP
Memory	0.103	0.439	0.055

Result metrics for unknown environments

TABLE VII
METRICS OF BUG2

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	118.755	200.4	0.075	0
Run 2	117.41	200.5	0.075	0
Run 3	118.371	200.5	0.075	0
Average	118.178	200.466	0.075	0

TABLE VIII
METRICS OF D* LITE

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	604.902	16.228	5.673	100
Run 2	591.378	16.228	5.673	100
Run 3	598.738	16.228	5.673	100
Average	598.339	16.228	5.673	100

TABLE IX
METRICS OF CoSAP IN UNKNOWN ENVIRONMENT

RUNS	TIME	LENGTH	MEMORY	SUCCESS
Run 1	673.747	24.445	0.1	100
Run 2	671.244	24.445	0.1	100
Run 3	663.757	24.445	0.1	100
Average	669.582	24.445	0.1	100

Comparison & graphs

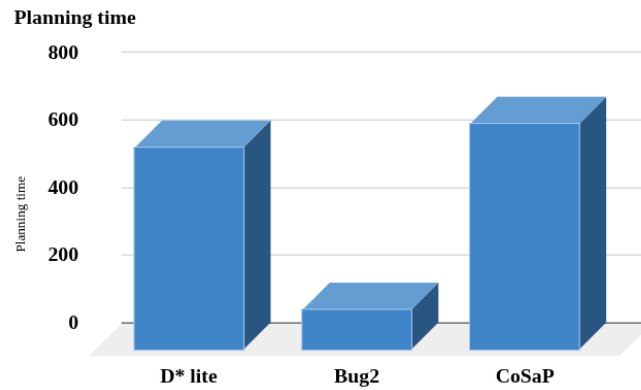


TABLE X

AVERAGE METRICS COMPARISON IN UNKNOWN ENVIRONMENT FOR PLANNING TIME

MODEL	D* Lite	Bug2	CoSaP
Planning time	598.339	118.178	669.582

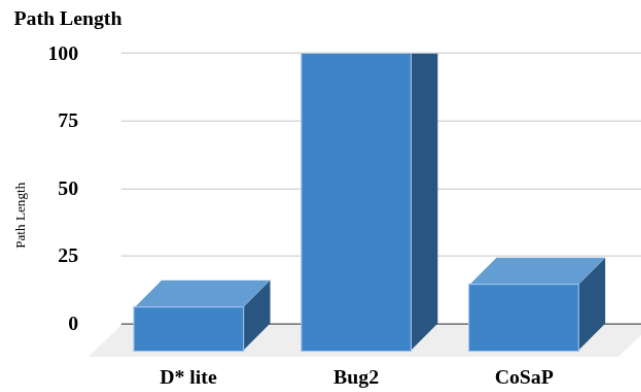


TABLE XI

AVERAGE METRICS COMPARISON IN UNKNOWN ENVIRONMENT FOR PATH LENGTH

MODEL	D* Lite	Bug2	CoSaP
Path length	16.228	200.466	24.445

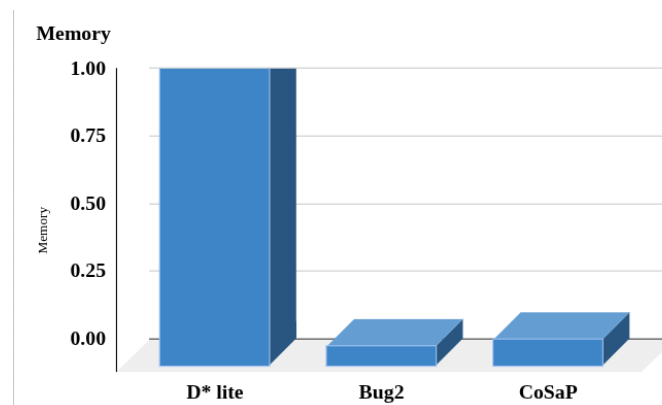


TABLE XII

AVERAGE METRICS COMPARISON IN UNKNOWN ENVIRONMENT FOR MEMORY

MODEL	D* Lite	Bug2	CoSaP
Memory	5.673	0.075	0.1