A Graph-Based Search Approach to Planning and Learning

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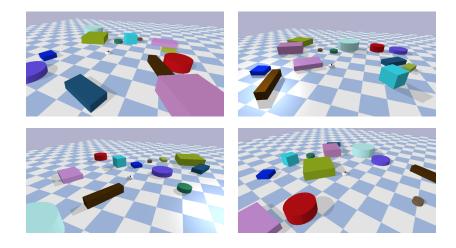
C. Smith

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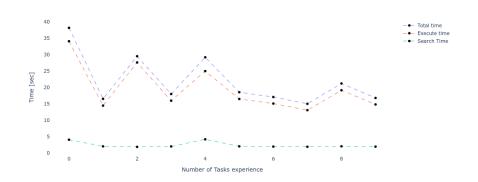
April 21, 2023



Results: Randomisation Drive Task

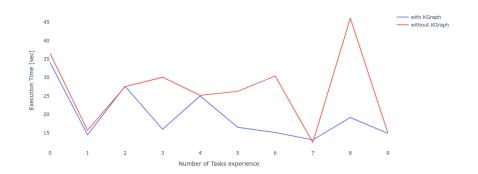


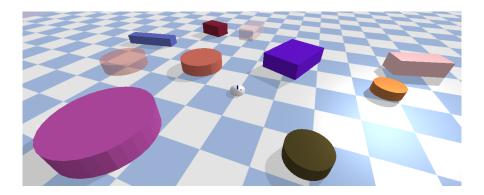
Results: Randomisation Drive Task

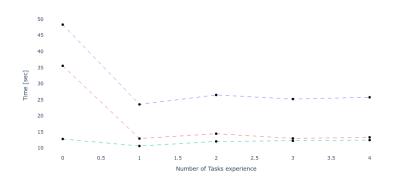




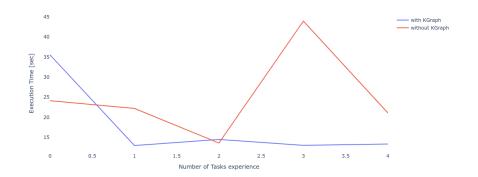
Results: Randomisation Drive Task



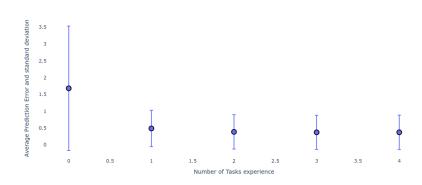








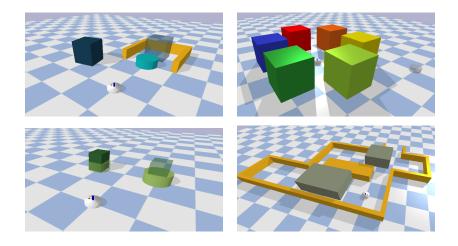




Results

Author	Learning	NAMO	Object to Target	Manipulation
Ellis et al. Sabbagh Novin et al.	√ √	×	X ✓	pushing grasp-push grasp-pull
Scholz et al.	✓	✓	X	graph-push grasp-pull
Vega-Brown et al.	X	✓	✓	gripping
Wang et al. Groote	✓ X / ✓	√ ✓	X	pushing pushing

More convincing environments





4 Week Planning

Good Scenario

- 50 % Report
- 50 % Presentation

4 Week Planning

Good Scenario

- 50 % Report
- 50 % Presentation

Better Scenario

- 40 % Report
- 40 % Presentation
- 20 % Benchmark Environments