Planning with Affordances

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Abstract

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I. Introduction

- 1. Planning
- 2. Reinforcement Learning
- 3. Value Iteration
- 4. Minecraft
- 5. Affordance Formalism

II. Related Work

- 1. Partial Order Planning
- 2. Branavan (learning sub goals through text)
- 3. Grounds and Kudenko, RL + symbolic planning
- 4. Koppola and Saxena (using affordances for ___)
- 5. Steedman, Formalizing Affordances
- 6. OOMDP
- 7. Teaching robot grounded relational symbols (toussaint)
- 8. RRTs

III. Background

- 1. Reinforcement Learning
- 2. Planning in general (PDDL, STRIPS)
- 3. Partial Order Planning
- 4. Affordances and Gibson
- 5. Minecraft, Subgoals

IV. Model

1. Affordance Formalism

V. Learning

?

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VI. Evaluation

- 1. Complexity
- 2. Proof(s) of optimality?
- 3. Empirical data on scenarios in Minecraft
- 4. Other baselines? (RRT, A*, Random, etc)

VII. Conclusion

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Acknowledgments

We would like to thank these peeps:

References

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