

Multi-Objective RL With Multi-Agent Bidding

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Paper under double-blind review

Keywords: Multi-Objective RL, Multi-Agent RL

Summary

The summary appears on the cover page. Although it can be identical to the abstract, it does not have to be. One might choose to omit the stated contributions in the Summary, given that they will be stated in the box below. The original abstract may also be extended to two paragraphs. The authors should ensure that the contents of the cover page fit entirely on a single page. The cover page does **not** count towards the 8–12 page limit.

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Contribution(s)

1. Provide a succinct but precise list of the contribution(s) of the paper. Use contextual notes to avoid implications of contributions more significant than intended and to clarify and situate the contribution relative to prior work (see the examples below). If there is no additional context, enter “None”. Try to keep each contribution to a single sentence, although multiple sentences are allowed when necessary. If using complete sentences, include punctuation. If using a single sentence fragment, you may omit the concluding period. A single contribution can be sufficient, and there is no limit on the number of contributions. Submissions will be judged mostly on the contributions claimed on their cover pages and the evidence provided to support them. Major contributions should not be claimed in the main text if they do not appear on the cover page. Overclaiming can lead to a submission being rejected, so it is important to have well-scoped contribution statements on the cover page.

Context: None

2. The submission template for submissions to RLJ/RLC 2025

Context: Built from previous RLC/RLJ, ICLR, and TMLR submission templates

3. *[Example of one contribution and corresponding contextual note for the paper “Policy gradient methods for reinforcement learning with function approximation” (Sutton et al., 2000).]*

This paper presents an expression for the policy gradient when using function approximation to represent the action-value function.

Context: Prior work established expressions for the policy gradient without function approximation (Williams, 1992).

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Abstract

1 The abstract paragraph should be indented 1/2 inch on both left and right-hand margins.
2 Use 10 point type, with a vertical spacing of 11 points. The word “Abstract” must be
3 centered, in bold, and in point size 12. Two line spaces precede the abstract. The
4 abstract must be limited to one paragraph.

5 **1 Introduction**

6 **References**

- 7 R. S. Sutton, D. McAllester, S. Singh, and Y. Mansour. Policy gradient methods for reinforcement
8 learning with function approximation. In *Advances in Neural Information Processing Systems 12*,
9 pp. 1057–1063, 2000.
- 10 R. J. Williams. Simple statistical gradient-following algorithms for connectionist reinforcement
11 learning. *Machine Learning*, 8:229–256, 1992.