

Representing AI problems expressed in PDDL to Unified Modeling Language diagrams

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Background:

The Planning Domain Definition Language (PDDL) is an attempt to standardize Artificial Intelligence Planning (AI) languages.

- There are various PDDL versions such as RDDL APPL MA-PDDL etc . MA-PDDL supports multi agents features.
- UML: This is a programming language that is used for object-oriented software development.
- UML includes the following diagrams: Class diagram, Component diagram, Sequence diagram, Activity diagram etc.

Goal of Our Work:

- Our goal is to convert problems from PDDL representation to Unified Modeling Language (UML) representation so that planning task can be visualized in the software engineering perspective.
- Implementing a software to perform the task.

Pouring Water Between Jugs Problem:

Jug pouring problem is a well known problem to us pouring water from one jug to another and maintaining capacitive property.



PDDL representation:

References:

1. Problem and domain from The Third International

Expected Outcome:



Conclusion and Future Work

We have studied various problem domains and

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