

Evolving Macro-Actions for Planning

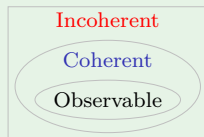
Hakim Newton, John Levine

Strathclyde Planning Group
Computer and Information Sciences
University of Strathclyde
Glasgow, United Kingdom

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Exploration of Coherent and Incoherent Macros

Macro Space: Learning from Example Plans



- Existing work explores observable macros only.
- Examples do not always cover all systems aspects.
- Planners often prune many useful choices.
- **Relaxed domains are incoherent but useful.**
- **Incoherent macros may be useful in the same way.**

How macros evolve in Blocks for FF

Was Observable

(unstack ?b5 ?b0)
(stack ?b5 ?b2)
(pick ?b0)

Was non-observable

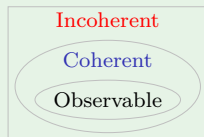
(unstack ?b5 ?b0)
(stack ?b5 ?b2)
(pick ?b0)
(stack ?b0 ?b5)

Incoherent

(drop ?b5)
(unstack ?b5 ?b0)
(stack ?b5 ?b2)
(pick ?b0)
(stack ?b0 ?b5)

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