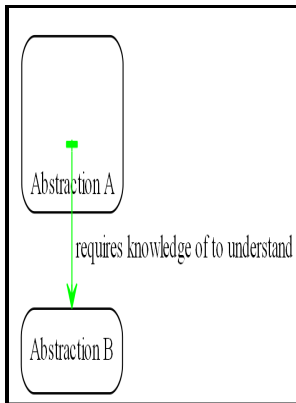


Generating abstraction hierarchies - an automated approach to reducing search in planning

Kluwer Academic Publisher - New methods for proving the impossibility to solve problems through reduction of problem spaces



Description: -

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Abstraction.

Computer science.

Artificial intelligence.

Machine learning Generating abstraction hierarchies - an automated approach to reducing search in planning

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The Paul Anthony Brick lectures

SECS 214

The Kluwer international series in engineering and computer science

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Generating Abstraction Hierarchies

The algorithm generates abstraction hierarchies that satisfy the 'ordered monotonicity' property, which guarantees that the structure of an abstract solution is not changed in the process of refining it.

Automatically generating abstractions for planning

In: Abstraction, Reformulation and Approximation SARA 2007 , pp. The list of bibliography 97 entries is also worth mentioning.

Automatically generating abstractions for planning

This book can be recommended not only to the specialists working in automatic problem solving; it would be useful for engineers who want to improve their understanding of themselves and the world around them. The abstractions generated by ALPINE are tested in multiple domains on large problem sets and are shown to produce shorter solutions with significantly less search than problem solving without using abstraction.

Generating Abstraction Hierarchies: An Automated Approach to Reducing Search in Planning by Craig A. Knoblock

This article presents a completely automated approach to generating abstractions for planning.

Generating Abstraction Hierarchies: An Automated Approach to Reducing Search in Planning by Craig A. Knoblock

Generating Abstraction Hierarchies will be of interest to researchers in machine learning, planning and problem reformation. Sometimes, while employing such search algorithms, problem solvers may prove to be inefficient and take too great an effort so as to showing that the problem has no solution.

Automatically generating abstractions for planning

Generating Abstraction Hierarchies formally defines this hierarchical problem solving method, shows that under certain assumptions this method can reduce the size of a search space from exponential to linear in the solution size, and describes the implementation of this method in PRODIGY. This technique results in reducing the number and simplifying the topology of the states which shape a problem space.

Craig A. Knoblock

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