

DOWNLOAD GENERATING ABSTRACTION HIERARCHIES AN AUTOMATED APPROACH TO REDUCING SEARCH IN PLANNING

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An Automated Approach to Reducing Search in 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.

Generating Abstraction Hierarchies | SpringerLink

Description : Generating Abstraction Hierarchies presents a completely automated approach to generating abstractions for problem solving. The abstractions are generated using a tractable, domain-independent algorithm whose only inputs are the definition of a problem space and the problem to be solved and whose output is an abstraction hierarchy ...

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Generating Abstraction Hierarchies presents a completely automated approach to generating abstractions for problem solving. The abstractions are generated using a tractable, domain-independent algorithm whose only inputs are the definition of a problem space and the problem to be solved and whose output is an abstraction hierarchy that is tailored to the particular problem.

Generating Abstraction Hierarchies - springer.com

Abstract. This chapter presents a system that constructs multiple hierarchies automatically from a set of ground concepts and relationships, arranging the information in a Multi-AH-graph model. The system is called CLAUDIA 36. It is capable of building "good" sets of hierarchies for a given set of ground interrelated concepts.

CHAPTER 5 AUTOMATIC GENERATION OF MULTIPLE HIERARCHIES OF

ALPINE, for generating abstraction hierarchies that are ordered monotonic—a property guaranteeing that no refinement of an abstract plan can undo any effects of the abstract plan Bacchus and Yang [1994] have presented a modification of this algorithm, HIGHPOINT, whose hierarchies are ordered monotonic and expected to satisfy

Planning with Abstraction Hierarchies can be - IJCAI

(4) The abstraction hierarchy tends to pull the parameters of one model closer to those of nearby ones, which naturally leads to a form of parameter smoothing or shrinkage [12]. We present experiments for PAH on synthetic data and on two real data sets: gene expression and text.

Probabilistic Abstraction Hierarchies

of the work on analyzing gene expression data [3] has focused on creating gene hierarchies. Similarly, in text domains, creating a hierarchy of documents is a common task [12, 7].

Probabilistic Abstraction Hierarchies - ResearchGate

The abstraction hierarchy represent the domain of human work by multiple levels of means-end and part-whole abstractions. It is argued in the paper that the abstraction hierarchy suffer from both methodological and conceptual problems. The problems are illustrated by concrete examples from the power plant domain.

MAKING SENSE OF THE ABSTRACTION HIERARCHY

Thus a data abstraction is a set of objects that can be manipulated directly only by a set of operations. An example of a data abstraction is the integers: the objects are 1, 2, 3, and so on and there are operations to add two integers, to test them for equality, and so on.

Data Abstraction and Hierarchy - Semantic Scholar

Similarly, in text domains, creating a hierarchy of documents is a common task [11]. In many of these applications, the hierarchy is unknown; indeed, discovering the hierarchy is often a key part of the analysis.

Probabilistic Abstraction Hierarchies - robotics.stanford.edu

Hierarchical A*: Searching Abstraction Hierarchies Efficiently R.C. Holte¹, M.B. Perez¹, R.M. Zimmer², A.J. MacDonald³
1. Introduction Several researchers have investigated abstraction as a means of automatically creating admissible

Hierarchical A*: Searching Abstraction Hierarchies Efficiently

In biological systems, for example, creating a taxonomy of the instances is one of the first steps in understanding the system. Thus, in particular, much of the work on analyzing gene expression data [3] has focused on creating gene hierarchies.

Probabilistic Abstraction Hierarchies - Stanford AI Lab

systematically identify problems and generate recommendations for enhancing complex systems
Identifying Problems and Generating Recommendations for Enhancing Complex Systems: Applying the Abstraction Hierarchy Framework as an Analytical Tool Wei Xu, Intel Corporation, Folsom, California

Identifying Problems and Generating Recommendations for

Generating Abstraction Hierarchies presents a completely automated approach to generating abstractions for problem solving. The abstractions are generated using a tractable, domain-independent algorithm whose only inputs are the definition of a problem space and the problem to be solved and whose output is an abstraction hierarchy that is ...

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