

Manuela M. Veloso

**Planning and Learning
by Analogical Reasoning**



**Springer-Verlag Berlin
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Planning And Learning By Analogical Reasoning

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Planning And Learning By Analogical Reasoning:

Planning and Learning by Analogical Reasoning Manuela M. Veloso, 1994-12-07 This research monograph describes the integration of analogical and case based reasoning into general problem solving and planning as a method of speedup learning The method based on derivational analogy has been fully implemented in PRODIGY ANALOGY and proven in practice to be amenable to scaling up both in terms of domain and problem complexity In this work the strategy level learning process is cast for the first time as the automation of the complete cycle of construction storing retrieving and flexibly reusing problem solving experience The algorithms involved are presented in detail and numerous examples are given Thus the book addresses researchers as well as practitioners Innovative Approaches to Planning, Scheduling and Control Katia P. Sycara, 1990

Inductive Logic Programming Stephen Muggleton, Ramon Otero, 2007-07-27 This book constitutes the thoroughly refereed post proceedings of the 16th International Conference on Inductive Logic Programming ILP 2006 held in Santiago de Compostela Spain in August 2006 The papers address all current topics in inductive logic programming ranging from theoretical and methodological issues to advanced applications Intelligent Techniques for Planning Ioannis Vlahavas, Dimitris Vrakas, 2005-01-01 The Intelligent Techniques for Planning presents a number of modern approaches to the area of automated planning These approaches combine methods from classical planning such as the construction of graphs and the use of domain independent heuristics with techniques from other areas of artificial intelligence This book discusses in detail a number of state of the art planning systems that utilize constraint satisfaction techniques in order to deal with time and resources machine learning in order to utilize experience drawn from past runs methods from knowledge systems for more expressive representation of knowledge and ideas from other areas such as Intelligent Agents Apart from the thorough analysis and implementation details each chapter of the book also provides extensive background information about its subject and presents and comments on similar approaches done in the past

New Directions in AI Planning Malik Ghallab, Alfredo Milani, 1996 **Progress in Artificial Intelligence. Knowledge Extraction, Multi-agent Systems, Logic Programming, and Constraint Solving** Pavel Brazdil, 2001-12-05 This book constitutes the refereed proceedings of the 10th Portuguese Conference on Artificial Intelligence EPTA 2001 held in Porto Portugal in December 2001 The 21 revised long papers and 18 revised short papers were carefully reviewed and selected from a total of 88 submissions The papers are organized in topical sections on extraction of knowledge from databases AI techniques for financial time series analysis multi agent systems AI logics and logic programming constraint satisfaction and AI planning ARPA/Rome Laboratory Knowledge-based Planning and Scheduling Initiative Workshop Proceedings, Tuscon, Arizona, February 21-24, 1994, 1994 **Building Intelligent Agents** Gheorghe Tecuci, 1998-06-23 Building Intelligent Agents is unique in its comprehensive coverage of the subject The first part of the book presents an original theory for building intelligent agents and a methodology and tool that implement the theory The second part of the book presents

complex and detailed case studies of building different types of agents an educational assessment agent a statistical analysis assessment and support agent an engineering design assistant and a virtual military commander Also featured in this book is Disciple a toolkit for building interactive agents which function in much the same way as a human apprentice Disciple based agents can reason both with incomplete information but also with information that is potentially incorrect This approach in which the agent learns its behavior from its teacher integrates many machine learning and knowledge acquisition techniques taking advantage of their complementary strengths to compensate for each others weakness As a consequence it significantly reduces or even eliminates the involvement of a knowledge engineer in the process of building an intelligent agent

Changes of Problem Representation Eugene Fink, 2013-03-20 The purpose of our research is to enhance the efficiency of AI problem solvers by automating representation changes We have developed a system that improves the description of input problems and selects an appropriate search algorithm for each given problem Motivation Researchers have accumulated much evidence on the importance of appropriate representations for the efficiency of AI systems The same problem may be easy or difficult depending on the way we describe it and on the search algorithm we use Previous work on the automatic improvement of problem descriptions has mostly been limited to the design of individual learning algorithms The user has traditionally been responsible for the choice of algorithms appropriate for a given problem We present a system that integrates multiple description changing and problem solving algorithms The purpose of the reported work is to formalize the concept of representation and to confirm the following hypothesis An effective representation changing system can be built from three parts a library of problem solving algorithms a library of algorithms that improve problem descriptions a control module that selects algorithms for each given problem

Program of the Twelfth Annual Conference of the Cognitive Science Society, 25-28 July 1990, Cambridge, Massachusetts Cognitive Science Society (U.S.). Conference, 1990 First published in 1990 Routledge is an imprint of Taylor Francis an informa company

Reviewing **Planning And Learning By Analogical Reasoning**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Planning And Learning By Analogical Reasoning**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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