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# Proceedings of the Eleventh National Conference on Artificial Intelligence

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## <u>Aaai 93 Proceedings Of The 11th National Conference</u> <u>On Artificial Intelligence</u>

**Youssef Hamadi** 

#### Aaai 93 Proceedings Of The 11th National Conference On Artificial Intelligence:

Ai 2004: Advances In Artificial Intelligence Geoffrey I. Webb, Xinghuo Yu, 2004-11-29 This book **AAAI-93** .1993 constitutes the refereed proceedings of the 17th Australian Conference on Artificial Intelligence AI 2004 held in Cairns Australia in December 2004 The 78 revised full papers and 62 revised short papers presented were carefully reviewed and selected from 340 submissions. The papers are organized in topical sections on agents biomedical applications computer vision image processing and pattern recognition ontologies knowledge discovery and data mining natural language and speech processing problem solving and reasoning robotics and soft computing **AAAI-93** ,1993 **Processes in Artificial Intelligence** Olivier Sigaud, Olivier Buffet, 2013-03-04 Markov Decision Processes MDPs are a mathematical framework for modeling sequential decision problems under uncertainty as well as reinforcement learning problems Written by experts in the field this book provides a global view of current research using MDPs in artificial intelligence It starts with an introductory presentation of the fundamental aspects of MDPs planning in MDPs reinforcement learning partially observable MDPs Markov games and the use of non classical criteria It then presents more advanced research trends in the field and gives some concrete examples using illustrative real life applications Intelligence: Principles and Practice George F. Luger, 2024-12-02 This book provides a complete introduction to Artificial Intelligence covering foundational computational technologies mathematical principles philosophical considerations and engineering disciplines essential for understanding AI Artificial Intelligence Principles and Practice emphasizes the interdisciplinary nature of AI integrating insights from psychology mathematics neuroscience and more The book addresses limitations ethical issues and the future promise of AI emphasizing the importance of ethical considerations in integrating AI into modern society With a modular design it offers flexibility for instructors and students to focus on specific components of AI while also providing a holistic view of the field Taking a comprehensive but concise perspective on the major elements of the field from historical background to design practices ethical issues and more Artificial Intelligence Principles and Practice provides the foundations needed for undergraduate or graduate level courses The important design paradigms and approaches to AI are explained in a clear easy to understand manner so that readers will be able to master the algorithms processes and methods described The principal intellectual and ethical foundations for creating artificially intelligent artifacts are presented in Parts I and VIII Part I offers the philosophical mathematical and engineering basis for our current AI practice Part VIII presents ethical concerns for the development and use of AI Part VIII also discusses fundamental limiting factors in the development of AI technology as well as hints at AI s promising future We recommended that PART I be used to introduce the AI discipline and that Part VIII be discussed after the AI practice materials Parts II through VII present the three main paradigms of current AI practice the symbol based the neural network or connectionist and the probabilistic Generous use of examples throughout helps illustrate the concepts and separate end of chapter exercises are

included Teaching resources include a solutions manual for the exercises PowerPoint presentation and implementations for the algorithms in the book AI 2005: Advances in Artificial Intelligence Shichao Zhang, 2005-11-21 This book constitutes the refereed proceedings of the 18th Australian Joint Conference on Artificial Intelligence AI 2005 held in Sydney Australia in December 2005 The 77 revised full papers and 119 revised short papers presented together with the abstracts of 3 keynote speeches were carefully reviewed and selected from 535 submissions. The papers are catgorized in three broad sections namely AI foundations and technologies computational intelligence and AI in specialized domains Particular topics addressed by the papers are logic and reasoning machine learning game theory robotic technology data mining neural networks fuzzy theory and algorithms evolutionary computing Web intelligence decision making pattern recognition agent technology and AI applications UAV Cooperative Decision and Control Tal Shima, Steven J. Rasmussen, 2009-02-19 An authoritative reference on cooperative decision and control of unmanned aerial vehicles How to Solve It: Modern Heuristics Zbigniew Michalewicz, David B. Fogel, 2013-03-14 I will tell you the hermit said to Lancelot the right of the matter Anonymous The Quest of the Holy Grail Gyorgy Polya's How to Solve It 287 stands as one of the most important contributions to the problem solving literatme in the twentieth century Even now as we move into the new millennium the book continues tobe a favorite among teachers and students for its instructive heuristics. The first edition of the book appeared in 1945 near the end of the Second World War and a few years before the invention of the transistor The book was a guick success and a second edition came out in 1957 How to Solve It is a compendium of approaches for tackling problems as we find them in mathematics That is the book provides not only examples of techniques and procedures but also instruction on how to make analogies use auxiliary devices work backwards from the goal to the given and so forth Es sentially the book is an encyclopedia of problem solving methods to be carried out by hand but more than that it is a treatise on how to think about framing and attacking **Combinatorial Search: From Algorithms to Systems** Youssef Hamadi, 2013-10-29 Although they are problems believed to be unsolvable in general tractability results suggest that some practical NP hard problems can be efficiently solved Combinatorial search algorithms are designed to efficiently explore the usually large solution space of these instances by reducing the search space to feasible regions and using heuristics to efficiently explore these regions Various mathematical formalisms may be used to express and tackle combinatorial problems among them the constraint satisfaction problem CSP and the propositional satisfiability problem SAT These algorithms or constraint solvers apply search space reduction through inference techniques use activity based heuristics to guide exploration diversify the searches through frequent restarts and often learn from their mistakes In this book the author focuses on knowledge sharing in combinatorial search the capacity to generate and exploit meaningful information such as redundant constraints heuristic hints and performance measures during search which can dramatically improve the performance of a constraint solver Information can be shared between multiple constraint solvers simultaneously working on the same instance or information can help achieve

good performance while solving a large set of related instances In the first case information sharing has to be performed at the expense of the underlying search effort since a solver has to stop its main effort to prepare and commu nicate the information to other solvers on the other hand not sharing information can incur a cost for the whole system with solvers potentially exploring unfeasible spaces discovered by other solvers In the second case sharing performance measures can be done with little overhead and the goal is to be able to tune a constraint solver in relation to the characteristics of a new instance this corresponds to the selection of the most suitable algorithm for solving a given instance The book is suitable for researchers practitioners and graduate students working in the areas of optimization search constraints and computational complexity Conditionals in Nonmonotonic Reasoning and Belief Revision Gabriele Kern-Isberner, 2003-06-29 Conditionals are omnipresent in everyday life as well as in scientific environments they represent generic knowledge acquired inductively or learned from books They tie a flexible and highly interrelated network of connections along which reasoning is possible and which can be applied to different situations Therefore conditionals are important but also quite problematic objects in knowledge representation This book presents a new approach to conditionals which captures their dynamic non proportional nature particularly well by considering conditionals as agents shifting possible worlds in order to establish relationships and beliefs This understanding of conditionals yields a rich theory which makes complex interactions between conditionals transparent and operational Moreover it provides a unifying and enhanced framework for knowledge representation nonmonotonic reasoning belief revision and even for knowledge discovery

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