



Looking For The Frontier A Search For Value

Crina Grosan, Ajith Abraham



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Heuristic Search Stefan Edelkamp, Stefan Schroedl, 2011-05-31 Search has been vital to artificial intelligence from the very beginning as a core technique in problem solving The authors present a thorough overview of heuristic search with a balance of discussion between theoretical analysis and efficient implementation and application to real world problems Current developments in search such as pattern databases and search with efficient use of external memory and parallel processing units on main boards and graphics cards are detailed Heuristic search as a problem solving tool is demonstrated in applications for puzzle solving game playing constraint satisfaction and machine learning While no previous familiarity with heuristic search is necessary the reader should have a basic knowledge of algorithms data structures and calculus Real world case studies and chapter ending exercises help to create a full and realized picture of how search fits into the world of artificial intelligence and the one around us Provides real world success stories and case studies for heuristic search algorithms Includes many AI developments not yet covered in textbooks such as pattern databases symbolic search and parallel processing units

Algorithms and Theory of Computation Handbook Mikhail J. Atallah, 1998-11-23 Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography The book also presents some advanced topics in combinatorial optimization and parallel distributed computing applications areas where algorithms and data structuring techniques are of special importance graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing

Multi-disciplinary Trends in Artificial Intelligence Manasawee Kaenampornpan, Rainer Malaka, Duc Dung Nguyen, Nicolas Schwind, 2018-11-09 This book constitutes the refereed conference proceedings of the 12th International Conference on Multi disciplinary Trends in Artificial Intelligence MIWAI 2018 held in Hanoi Vietnam in November 2018 The 16 full papers presented together with 9 short papers were carefully reviewed and selected from 65 submissions They are organized in the following topical sections control planning and scheduling pattern recognition knowledge mining software applications strategy games and others

Automated Planning and Acting Malik Ghallab, Dana Nau, Paolo Traverso, 2016-08-09 This book presents the most recent and advanced techniques for creating autonomous AI systems capable of planning and acting effectively

Visual Perception for Humanoid Robots David Israel González Aguirre, 2018-09-01 This book provides an overview of model based environmental visual perception for humanoid robots The

visual perception of a humanoid robot creates a bidirectional bridge connecting sensor signals with internal representations of environmental objects. The objective of such perception systems is to answer two fundamental questions: What where is it? To answer these questions using a sensor to representation bridge coordinated processes are conducted to extract and exploit cues matching robot's mental representations to physical entities. These include sensor actuator modeling, calibration, filtering, and feature extraction for state estimation. This book discusses the following topics in depth: Active Sensing, Robust probabilistic methods for optimal high dynamic range image acquisition are suitable for use with inexpensive cameras. This enables ideal sensing in arbitrary environmental conditions encountered in human-centric spaces. The book quantitatively shows the importance of equipping robots with dependable visual sensing. Feature Extraction, Recognition, Parameter-free edge extraction methods based on structural graphs enable the representation of geometric primitives effectively and efficiently. This is done by eccentricity segmentation providing excellent recognition even on noisy low-resolution images. Stereoscopic vision, Euclidean metric and graph shape descriptors are shown to be powerful mechanisms for difficult recognition tasks. Global Self-Localization, Depth Uncertainty Learning, Simultaneous feature matching for global localization and 6D self-pose estimation are addressed by a novel geometric and probabilistic concept using intersection of Gaussian spheres. The path from intuition to the closed-form optimal solution determining the robot location is described, including a supervised learning method for uncertainty depth modeling based on extensive ground truth training data from a motion capture system. The methods and experiments are presented in self-contained chapters with comparisons and the state of the art. The algorithms were implemented and empirically evaluated on two humanoid robots, ARMAR III and A/B. The excellent robustness performance and derived results received an award at the IEEE conference on humanoid robots, and the contributions have been utilized for numerous visual manipulation tasks with demonstration at distinguished venues such as ICRA, CeBIT, IAS, and Automatica.

VLSI Test Principles and Architectures Laung-Terng Wang, Cheng-Wen Wu, Xiaoqing Wen, 2006-08-14. This book is a comprehensive guide to new DFT methods that will show the readers how to design a testable and quality product, drive down test cost, improve product quality and yield, and speed up time to market and time to volume. Most up-to-date coverage of design for testability. Coverage of industry practices commonly found in commercial DFT tools but not discussed in other books. Numerous practical examples in each chapter illustrating basic VLSI test principles and DFT architectures.

Artificial Intelligence David L. Poole, Alan K. Mackworth, 2017-09-25. Artificial Intelligence presents a practical guide to AI including agents, machine learning, and problem solving in simple and complex domains.

Searching for Arizona's Buried Treasures Ron Quinn, 2013-10-01. Searching for hidden treasures in the Tubac and Tumacacori mountains, few have ever heard of, we discovered places that have never been visited by others to this day. The four of us finally unearthed a medium-size buried treasure south of Tucson, Arizona, which consisted of 82 pounds of Spanish gold bullion.

Artificial Intelligence Nils J. Nilsson, 1998-04-17. Intelligent agents are employed as the central characters in this new

introductory text Beginning with elementary reactive agents Nilsson gradually increases their cognitive horsepower to illustrate the most important and lasting ideas in AI Neural networks genetic programming computer vision heuristic search knowledge representation and reasoning Bayes networks planning and language understanding are each revealed through the growing capabilities of these agents The book provides a refreshing and motivating new synthesis of the field by one of AI's master expositors and leading researchers Artificial Intelligence A New Synthesis takes the reader on a complete tour of this intriguing new world of AI An evolutionary approach provides a unifying theme Thorough coverage of important AI ideas old and new Frequent use of examples and illustrative diagrams Extensive coverage of machine learning methods throughout the text Citations to over 500 references Comprehensive index

[Advances in Computer Games](#) H. Jaap van den Herik, Aske Plaat, 2012-07-18 This book constitutes the thoroughly refereed post conference proceedings of the 13th Advances in Computer Games Conference ACG 2011 held in Tilburg The Netherlands in November 2011 The 29 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics such as Monte Carlo tree search and its enhancement temporal difference learning optimization solving and searching analysis of a game characteristic new approaches and serious games

Decision Modeling in Policy Management Giampiero Beroggi, 2013-12-01 The last decade has experienced major societal challenges at the intersection of technological systems and policy making Prevalent examples are the liberalization of energy and telecommunications markets the public aversion towards nuclear power plants the development of high speed trains the debates about global warming and sustainability the development of intelligent vehicle systems and the controversies concerning the location of waste depositories airports and energy systems These challenges coupled with the call from industry for a systems engineering oriented approach to policy analysis motivated Delft University of Technology to launch the first European School of Systems Engineering Policy Analysis and Management SEPA The purpose was to educate engineering oriented policy analysts in bridging the gap between engineering systems and policy decision making processes both for the public and private sector Up to now more than 500 first year students and 30 Ph D students have enrolled in the program In 1993 I set up a class called Quantitative Methods for Problem Solving which had to address the most relevant issues in decision making for policy management such as linear and non linear optimization multiattribute utility theory multicriteria decision making concepts from game theory outranking relations and probabilistic influence diagrams

The Semantic Web - ISWC 2010 Peter F. Patel-Schneider, Yue Pan, Pascal Hitzler, Peter Mika, Lei Zhang, Jeff Z. Pan, Birte Glimm, Ian Horrocks, 2011-01-04 This book constitutes the refereed proceedings of the 7th International Semantic Web Conference ISWC 2008 held in Karlsruhe Germany during October 26 30 2008 The volume contains 43 revised full research papers selected from a total of 261 submissions of which an additional 3 papers were referred to the semantic Web in use track 11 papers out of 26 submissions to the semantic Web in use track and 7 papers and 12 posters accepted out of 39 submissions to the doctoral consortium The topics covered in the research track

are ontology engineering data management software and service engineering non standard reasoning with ontologies semantic retrieval OWL ontology alignment description logics user interfaces Web data and knowledge semantic Web services semantic social networks and rules and relatedness The semantic Web in use track covers knowledge management business applications applications from home to space and services and infrastructure **Intelligent Systems** Crina

Grosan,Ajith Abraham,2011-07-29 Computational intelligence is a well established paradigm where new theories with a sound biological understanding have been evolving The current experimental systems have many of the characteristics of biological computers brains in other words and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers As evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on This book comprising of 17 chapters offers a step by step introduction in a chronological order to the various modern computational intelligence tools used in practical problem solving Starting with different search techniques including informed and uninformed search heuristic search minmax alpha beta pruning methods evolutionary algorithms and swarm intelligent techniques the authors illustrate the design of knowledge based systems and advanced expert systems which incorporate uncertainty and fuzziness Machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted Academics scientists as well as engineers engaged in research development and application of computational intelligence techniques machine learning and data mining would find the comprehensive coverage of this book invaluable **Proceedings AAI-87 Sixth National**

Conference on Artificial Intelligence, July 13-17, 1987 American Association for Artificial Intelligence,1987

Rule-Based Programming Thaddeus J. Kowalski,Leon S. Levy,2012-12-06 Rule Based Programming is a broad presentation of the rule based programming method with many example programs showing the strengths of the rule based approach The rule based approach has been used extensively in the development of artificial intelligence systems such as expert systems and machine learning This rule based programming technique has been applied in such diverse fields as medical diagnostic systems insurance and banking systems as well as automated design and configuration systems Rule based programming is also helpful in bridging the semantic gap between an application and a program allowing domain specialists to understand programs and participate more closely in their development Over sixty programs are presented and all programs are available from an ftp site Many of these programs are presented in several versions allowing the reader to see how realistic programs are elaborated from back of envelope models Metaprogramming is also presented as a technique for bridging the semantic gap Rule Based Programming will be of interest to programmers systems analysts and other developers of expert systems as well as to researchers and practitioners in artificial intelligence computer science professionals and educators *Artificial Intelligence for Computer Games* Pedro Antonio González-Calero,Marco Antonio

Gómez-Martín,2011-03-01 The book presents some of the most relevant results from academia in the area of Artificial Intelligence for games It emphasizes well theoretically supported work supported by developed prototypes which should lead into integration of academic AI techniques into current electronic entertainment games The book elaborates on the main results produced in Academia within the last 10 years regarding all aspects of Artificial Intelligence for games including pathfinding decision making and learning A general theme of the book is the coverage of techniques for facilitating the construction of flexible not prescribed AI for agents in games Regarding pathfinding the book includes new techniques for implementing real time search methods that improve the results obtained through AI as well as techniques for learning pathfinding behavior by observing actual players Regarding decision making the book describes new techniques for authoring tools that facilitate the construction by game designers typically nonprogrammers of behavior controlling software by reusing patterns or actual cases of past behavior Additionally the book will cover a number of approaches proposed for extending the essentially pre scripted nature of current commercial videogames AI into a more interactive form of narrative where the story emerges from the interaction with the player Some of those approaches rely on a layered architecture for the character AI including beliefs intentions and emotions taking ideas from research on agent systems The book also includes chapters on techniques for automatically or semiautomatically learning complex behavior from recorded traces of human or automatic players using different combinations of reinforcement learning case based reasoning neural networks and genetic algorithms

Artificial Intelligence: A Systems Approach M. Tim Jones,2008-12-26 This book offers students and AI programmers a new perspective on the study of artificial intelligence concepts The essential topics and theory of AI are presented but it also includes practical information on data input reduction as well as data output i e algorithm usage Because traditional AI concepts such as pattern recognition numerical optimization and data mining are now simply types of algorithms a different approach is needed This sensor algorithm effector approach grounds the algorithms with an environment helps students and AI practitioners to better understand them and subsequently how to apply them The book has numerous up to date applications in game programming intelligent agents neural networks artificial immune systems and more A CD ROM with simulations code and figures accompanies the book

Algorithms and Networking for Computer Games Jouni Smed,Harri Hakonen,2017-06-16 The essential guide to solving algorithmic and networking problems in commercial computer games revised and extended Algorithms and Networking for Computer Games Second Edition is written from the perspective of the computer scientist Combining algorithmic knowledge and game related problems it explores the most common problems encountered in game programming The first part of the book presents practical algorithms for solving classical topics such as random numbers procedural generation tournaments group formations and game trees The authors also focus on how to find a path in create the terrain of and make decisions in the game world The second part introduces networking related problems in computer games focusing on four key questions how to hide the

inherent communication delay how to best exploit limited network resources how to cope with cheating and how to measure the on line game data Thoroughly revised updated and expanded to reflect the many constituent changes occurring in the commercial gaming industry since the original this Second Edition like the first is a timely comprehensive resource offering deeper algorithmic insight and more extensive coverage of game specific networking problems than ordinarily encountered in game development books Algorithms and Networking for Computer Games Second Edition Provides algorithmic solutions in pseudo code format which emphasises the idea behind the solution and can easily be written into a programming language of choice Features a section on the Synthetic player covering decision making influence maps finite state machines flocking fuzzy sets and probabilistic reasoning and noise generation Contains in depth treatment of network communication including dead reckoning local perception filters cheating prevention and on line metrics Now includes 73 ready to use algorithms and 247 illustrative exercises Algorithms and Networking for Computer Games Second Edition is a must have resource for advanced undergraduate and graduate students taking computer game related courses postgraduate researchers in game related topics and developers interested in deepening their knowledge of the theoretical underpinnings of computer games and in learning new approaches to game design and programming

ECAI 2004 Ramon López de Mántaras, Lorenza Saitta, 2004 This is the Golden Age for Artificial Intelligence The world is becoming increasingly automated and wired together This also increases the opportunities for AI to help people and commerce Almost every sub field of AI had now been used in substantial applications Some of the fields highlighted in this publication are CBR Technology Model Based Systems Data Mining and Natural Language Techniques Not only does this publication show the activities capabilities and accomplishments of the sub fields it also focuses on what is happening across the field as a whole

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