

REAL-TIME SEARCH FOR LEARNING AUTONOMOUS AGENTS

Toru Ishida



Kluwer Academic Publishers

Real Time Search For Learning Autonomous Agents

Gerhard Weiss



Real Time Search For Learning Autonomous Agents:

Real-Time Search for Learning Autonomous Agents Toru Ishida,1997-06-30 Autonomous agents or multiagent systems are computational systems in which several computational agents interact or work together to perform some set of tasks These systems may involve computational agents having common goals or distinct goals Real Time Search for Learning Autonomous Agents focuses on extending real time search algorithms for autonomous agents and for a multiagent world Although real time search provides an attractive framework for resource bounded problem solving the behavior of the problem solver is not rational enough for autonomous agents The problem solver always keeps the record of its moves and the problem solver cannot utilize and improve previous experiments Other problems are that although the algorithms interleave planning and execution they cannot be directly applied to a multiagent world The problem solver cannot adapt to the dynamically changing goals and the problem solver cannot cooperatively solve problems with other problem solvers This book deals with all these issues Real Time Search for Learning Autonomous Agents serves as an excellent resource for researchers and engineers interested in both practical references and some theoretical basis for agent multiagent systems The book can also be used as a text for advanced courses on the subject *Real-Time Search for Learning Autonomous Agents* Toru Ishida,2007-08-28 Autonomous agents or multiagent systems are computational systems in which several computational agents interact or work together to perform some set of tasks These systems may involve computational agents having common goals or distinct goals Real Time Search for Learning Autonomous Agents focuses on extending real time search algorithms for autonomous agents and for a multiagent world Although real time search provides an attractive framework for resource bounded problem solving the behavior of the problem solver is not rational enough for autonomous agents The problem solver always keeps the record of its moves and the problem solver cannot utilize and improve previous experiments Other problems are that although the algorithms interleave planning and execution they cannot be directly applied to a multiagent world The problem solver cannot adapt to the dynamically changing goals and the problem solver cannot cooperatively solve problems with other problem solvers This book deals with all these issues Real Time Search for Learning Autonomous Agents serves as an excellent resource for researchers and engineers interested in both practical references and some theoretical basis for agent multiagent systems The book can also be used as a text for advanced courses on the subject **Ant Algorithms** Marco Dorigo,Gianni Di Caro,Michael Sampels,2003-08-02 This book constitutes the refereed proceedings of the Third International Workshop on Ant Algorithms ANTS 2002 held in Brussels Belgium in September 2002 The 17 revised full papers 11 short papers and extended poster abstracts presented were carefully reviewed and selected from 52 submissions The papers deal with theoretical and foundational aspects and a variety of new variants of ant algorithms as well as with a broad variety of optimization applications in networking and operations research All in all this book presents the state of the art in research and development in the emerging field of ant algorithms **Multiagent**

Systems Gerhard Weiss,1999 An introduction to multiagent systems and contemporary distributed artificial intelligence this text provides coverage of basic topics as well as closely related ones It emphasizes aspects of both theory and application and includes exercises of varying degrees of difficulty *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 *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 *Autonomous Agents* George A. Bekey,2012-12-06 An agent is a system capable of perceiving the environment reasoning with the percepts and then acting

upon the world Agents can be purely software systems in which case their percepts and output actions are encoded binary strings However agents can also be realized in hardware and then they are robots The Artificial Intelligence community frequently views robots as embodied intelligent agents The First International Conference on Autonomous Agents was held in Santa Monica California in February 1997 This conference brought together researchers from around the world with interests in agents whether implemented purely in software or in hardware The conference featured such topics as intelligent software agents agents in virtual environments agents in the entertainment industry and robotic agents Papers on robotic agents were selected for this volume Autonomous Agents will be of interest to researchers and students in the area of artificial intelligence and robotics

Generative AI Security Shaila Rana,Rhonda Chicone,2025-10-31 Up to date reference enabling readers to address the full spectrum of AI security challenges while maintaining model utility *Generative AI Security* Defense Threats and Vulnerabilities delivers a technical framework for securing generative AI systems building on established standards while focusing specifically on emerging threats to large language models and other generative AI systems Moving beyond treating AI security as a dual use technology this book provides detailed technical analysis of three critical dimensions implementing AI powered security tools defending against AI enhanced attacks and protecting AI systems from compromise through attacks like prompt injection model poisoning and data extraction The book provides concrete technical implementations supported by real world case studies of actual AI system compromises examining documented cases like the DeepSeek breaches Llama vulnerabilities and Google s CaMeL security defenses to demonstrate attack methodologies and defense strategies while emphasizing foundational security principles that remain relevant despite technological shifts Each chapter progresses from theoretical foundations to practical applications The book also includes an implementation guide and hands on exercises focusing on specific vulnerabilities in generative AI architectures security control implementation and compliance frameworks *Generative AI Security* Defense Threats and Vulnerabilities discusses topics including Machine learning fundamentals including supervised unsupervised and reinforcement learning and feature engineering and selection Intelligent Security Information and Event Management SIEM covering AI enhanced log analysis predictive vulnerability assessment and automated patch generation Deepfakes and synthetic media covering image and video manipulation voice cloning audio deepfakes and AI s greater impact on information integrity Security attacks on generative AI including jailbreaking adversarial backdoor and data poisoning attacks Privacy preserving AI techniques including federated learning and homomorphic encryption *Generative AI Security* Defense Threats and Vulnerabilities is an essential resource for cybersecurity professionals and architects engineers IT professionals and organization leaders seeking integrated strategies that address the full spectrum of Generative AI security challenges while maintaining model utility

Recent Advances in Agent-based Complex Automated Negotiation Naoki Fukuta,Takayuki Ito,Minjie Zhang,Katsuhide Fujita,Valentin Robu,2016-03-24 This book covers recent advances in Complex Automated Negotiations as a widely studied

emerging area in the field of Autonomous Agents and Multi Agent Systems The book includes selected revised and extended papers from the 7th International Workshop on Agent Based Complex Automated Negotiation ACAN2014 which was held in Paris France in May 2014 The book also includes brief introductions about Agent based Complex Automated Negotiation which are based on tutorials provided in the workshop and brief summaries and descriptions about the ANAC 14 Automated Negotiating Agents Competition competition where authors of selected finalist agents explain the strategies and the ideas used by them The book is targeted to academic and industrial researchers in various communities of autonomous agents and multi agent systems such as agreement technology mechanism design electronic commerce related areas as well as graduate undergraduate and PhD students working in those areas or having interest in them Conflicting Agents Cathérine Tessier,Laurent Chaudron,Heinz-Jürgen Müller,2000-11-30 Conflicts between agents acting in a multi agent environment arise for different reasons involve different concepts and are dealt with in different ways depending on the kind of agents and on the domain where they are considered Agents may have conflicting beliefs conflicting goals or may have to share limited resources Consequently conflicts may be expressed as mere differences or as contradictions or even as social conflicts They may be avoided solved kept or even created deliberately Conflicting Agents studies conflicts in the context of multi agent systems i e artificial societies modeled on the basis of autonomous interacting agents This book addresses questions about types of conflicts conflict definitions and the use of conflicts as trigger functions for activities in multi agent systems The book is also dedicated to questions of conflict management resolution and avoidance i e the question of how agents cope with conflicts and conflicting situations

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