

ARTIFICIAL INTELLIGENCE AND MOBILE ROBOTS

SUCCESSFUL CASE STUDIES OF
ROBOT SYSTEMS

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Artificial Intelligence And Mobile Robots Case Studies Of Successful Robot Systems

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Artificial Intelligence And Mobile Robots Case Studies Of Successful Robot Systems:

Artificial Intelligence and Mobile Robots David Kortenkamp, Russell Peter Bonasso, Robin Murphy, 1998 The mobile robot systems described in this book were selected from among the best available implementations by leading universities and research laboratories These are robots that have left the lab and been tested in natural and unknown environments They perform many different tasks from giving tours to collecting trash Many have distinguished themselves usually with first or second place finishes at various indoor and outdoor mobile robot competitions Each case study is self contained and includes detailed descriptions of important algorithms including pseudo code Thus this volume serves as a recipe book for the design of successful mobile robot applications Common themes include navigation and mapping computer vision and architecture Contributors Ronald Arkin Tucker Balch Michael Brady Don Brutzman Arno Bucken R James Firby Erann Gat Tony Healy Ian Horswill Housheng Hu Sven Koenig Kurt Konolige David Kortenkamp Dave Marco Bob McGhee Robin Murphy Karen Myers Illah Nourbakhsh Peter Prokopowicz Bill Schiller Reid Simmons Michael Swain Sebastian Thrun **Mobile Robots: The Evolutionary Approach** Nadia Nedjah, 2007-03-08 Researchers have obtained robots that display an amazing slew of behaviors and perform a multitude of tasks including perception of environment negotiating rough terrain and pushing boxes This volume offers a wide spectrum of sample works developed in leading research throughout the world about evolutionary mobile robotics and demonstrates the success of the technique in evolving efficient and capable mobile robots

Foundations of Artificial Intelligence and Robotics Wendell H. Chun, 2024-12-24 Artificial intelligence AI is a complicated science that combines philosophy cognitive psychology neuroscience mathematics and logic logicism economics computer science computability and software Meanwhile robotics is an engineering field that compliments AI There can be situations where AI can function without a robot e g Turing Test and robotics without AI e g teleoperation but in many cases each technology requires each other to exhibit a complete system having smart robots and AI being able to control its interactions i e effectors with its environment This book provides a complete history of computing AI and robotics from its early development to state of the art technology providing a roadmap of these complicated and constantly evolving subjects Divided into two volumes covering the progress of symbolic logic and the explosion in learning deep learning in natural language and perception this first volume investigates the coming together of AI the mind and robotics the body and discusses the state of AI today Key Features Provides a complete overview of the topic of AI starting with philosophy psychology neuroscience and logicism and extending to the action of the robots and AI needed for a futuristic society Provides a holistic view of AI and touches on all the misconceptions and tangents to the technologies through taking a systematic approach Provides a glossary of terms list of notable people and extensive references Provides the interconnections and history of the progress of technology for over 100 years as both the hardware Moore s Law GPUs and software i e generative AI have advanced Intended as a complete reference this book is useful to undergraduate and

postgraduate students of computing as well as the general reader It can also be used as a textbook by course convenors If you only had one book on AI and robotics this set would be the first reference to acquire and learn about the theory and practice

Autonomous Robotic Systems Changjiu Zhou, Darío Maravall, Da Ruan, 2013-03-20 This book contains an edited collection of eighteen contributions on soft and hard computing techniques and their applications to autonomous robotic systems Each contribution has been exclusively written for this volume by a leading researcher The volume demonstrates the various ways that the soft computing and hard computing techniques can be used in different integrated manners to better develop autonomous robotic systems that can perform various tasks of vision perception cognition thinking pattern recognition decision making and reasoning and control amongst others Each chapter of the book is self contained and points out the future direction of research It is a must reading for students and researchers interested in exploring the potentials of the fascinating field that will form the basis for the design of the intelligent machines of the future Madan M Gupta

Artificial Intelligence Research and Development Isabel Aguiló, Llorenç Valverde, M. Teresa Escrig, 2003 The main scope of this publication is to promote collaborations among research groups in the community and to interchange ideas allowing researchers to get a quick overview of the state of the art This volume looks at topics including robotics and computer vision and multiagent systems

Mobile Robots Navigation Alejandra Barrera, 2010-03-01 Mobile robots navigation includes different interrelated activities i perception as obtaining and interpreting sensory information ii exploration as the strategy that guides the robot to select the next direction to go iii mapping involving the construction of a spatial representation by using the sensory information perceived iv localization as the strategy to estimate the robot position within the spatial map v path planning as the strategy to find a path towards a goal location being optimal or not and vi path execution where motor actions are determined and adapted to environmental changes The book addresses those activities by integrating results from the research work of several authors all over the world Research cases are documented in 32 chapters organized within 7 categories next described

KI 2001: Advances in Artificial Intelligence Franz Baader, Gerhard Brewka, Thomas Eiter, 2001-09-05 This book constitutes the refereed proceedings of the Joint German Austrian Conference on Artificial Intelligence KI 2001 held in Vienna Austria in September 2001 The 29 revised full technical papers presented together with one invited paper and four posters of industrial papers were carefully reviewed and selected from 79 submissions All current aspects in AI are addressed ranging from theoretical and foundational issues to industrial applications

Rough Set Theory and Granular Computing Masahiro Inuiguchi, Shusaku Tsumoto, Shoji Hirano, 2012-12-06 After 20 years of pursuing rough set theory and its applications a look on its present state and further prospects is badly needed The monograph *Rough Set Theory and Granular Computing* edited by Masahiro Inuiguchi Shoji Hirano and Shusaku Tsumoto meets this demand It presents the newest developments in this area and gives fair picture of the state of the art in this domain Firstly in the keynote papers by Zdzisław Pawlak Andrzej Skowron and Sankar K Pal the relationship of rough

sets with other important methods of data analysis Bayes theorem neuro computing and pattern recognition is thoroughly examined Next several interesting generalizations of the theory and new directions of research are presented Furthermore application of rough sets in data mining in particular rule induction methods based on rough set theory is presented and discussed Further important issue discussed in the monograph is rough set based data analysis including study of decisions making in conflict situations Last but not least some recent engineering applications of rough set theory are given They include a proposal of rough set processor architecture organization for fast implementation of basic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle Thus the monograph beside presenting wide spectrum of ongoing research in this area also points out new emerging areas of study and applications which makes it a valuable source of information to all interested in this domain *KI 2004: Advances in Artificial*

Intelligence Susanne Biundo, Thom Frühwirth, Günther Palm, 2005-01-11

KI2004 was the 27th edition of the annual German Conference on Artificial Intelligence which traditionally brings together academic and industrial researchers from all areas of AI and which enjoys increasing international attendance KI 2004 received 103 submissions from 26 countries This volume contains the 30 papers that were finally selected for presentation at the conference The papers cover quite a broad spectrum of classical subareas of AI like natural language processing neural networks knowledge representation reasoning planning and search When looking at this year's contributions it was exciting to observe that there was a strong trend towards actual real world applications of AI technology A majority of contributions resulted from or were motivated by applications in a variety of areas Examples include applications of planning where the technology is being exploited for taxiway traffic control and game playing natural language processing and knowledge representation are enabling advanced Web based information processing and the integration of results from automated reasoning neural networks and machine perception into robotics leads to significantly improved capabilities of autonomous systems The technical programme of KI 2004 was highlighted by invited talks from outstanding researchers in the areas of automated reasoning robot planning constraint reasoning machine learning and semantic Web Jorg Siekmann DFKI and University of Saarland Saarbrücken Malik Ghallab LAAS CNRS Toulouse Franco Fages INRIA Rocquencourt Martin Riedmiller University of Bayreuth and Wolfgang Wahlster DFKI and University of Saarland Saarbrücken Their invited papers are also presented in this volume *Agent Computing and Multi-Agent Systems* Ramakoti Sadananada, 2006-07-18 This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi Agents PRIMA 2006 held in Guilin China in August 2006 The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks addressing subjects from theoretical and methodological issues to applications Topics include agent models agent architectures agent oriented software engineering semantic Web service collaboration coordination and negotiation and more **Computer Vision**

Systems Henrik I. Christensen, 2003-06-29 Computer Vision has now reached a level of maturity that allows us not only to

perform research on individual methods but also to build fully integrated computer vision systems of a significant complexity. This opens up a number of new problems related to architectures, systems integration, validation of systems using benchmarking techniques and so on. So far the majority of vision conferences have focused on component technologies which has motivated the organization of the First International Conference on Computer Vision Systems (ICVS). It is our hope that the conference will allow us not only to see a number of interesting new vision techniques and systems but hopefully also to define the research issues that need to be addressed to pave the way for more wide scale use of computer vision in a diverse set of real world applications. ICVS is organized as a single track conference consisting of high quality previously unpublished contributed papers on new and original research on computer vision systems. All contributions will be presented orally. A total of 65 papers were submitted for consideration by the conference. All papers were viewed by three reviewers from the program committee. Thirty two of the papers were selected for presentation. ICVS 99 is being held at the Alfredo Kraus Auditorium and Convention Centre in Las Palmas on the lovely Canary Islands, Spain. The setting is spri like which seems only appropriate as the basis for a new conference.

Robotics and Cognitive Approaches to Spatial Mapping Margaret E.

Jefferies, Wai-Kiang Yeap, 2008-01-10 This important work is an attempt to synthesize two areas that need to be treated in tandem. The book brings together the fields of robot spatial mapping and cognitive spatial mapping which share some common core problems. One would expect some cross fertilization of research between the two areas to have occurred yet this has begun only recently. There are now signs that some synthesis is happening so this work is a timely one for students and engineers in robotics.

Autonomous and Intelligent Systems Mohamed Kamel, Fakhri Karray, Wail Gueaieb, Alaa Khamis, 2011-06-16 This book constitutes the refereed proceedings of the Second International Conference on Autonomous and Intelligent Systems (AIS 2011) held in Burnaby, BC, Canada in June 2011, colocated with the International Conference on Image Analysis and Recognition (IACIAR 2011). The 40 revised full papers presented were carefully reviewed and selected from 62 submissions. The papers are organized in topical sections on autonomous and intelligent systems, intelligent and advanced control systems, intelligent sensing and data analysis, human-machine interaction and intelligent circuit analysis and signal processing.

Advances in Robot Learning Jeremy Wyatt, John Demiris, 2000-10-11 This book constitutes the thoroughly refereed post-workshop proceedings of the 8th European Workshop on Learning Robots (EWLR 99) held in Lausanne, Switzerland in September 1999. The seven revised full workshop papers presented were carefully reviewed and selected for inclusion in the book. Also included are two invited full papers. Among the topics addressed are map building for robot navigation, multi-task reinforcement learning, neural network approaches, example-based learning, situated agents, planning maps for mobile robots, path finding, autonomous robots and biologically inspired approaches.

Genetic Programming Riccardo Poli, Peter Nordin, William B. Langdon, Terence C. Fogarty, 2003-07-31 This book constitutes the refereed proceedings of the Second European Workshop on Genetic Programming (EuroPG 99) held in Göteborg, Sweden in

May 1999 The 12 revised full papers and 11 posters presented have been carefully reviewed and selected for inclusion in the book All the relevant aspects of genetic programming are addressed ranging from traditional and foundational issues to applications in a variety of fields *Architectural Design of Multi-Agent Systems: Technologies and Techniques* Lin, Hong, 2007-05-31 This book is a compilation of advanced research results in architecture and modeling issues of multi agent systems It serves as a reference for research on system models architectural design languages methods and reasoning module interface design and design issues Provided by publisher **Introduction to AI Robotics, second edition** Robin R. Murphy, 2019-10-01 A comprehensive survey of artificial intelligence algorithms and programming organization for robot systems combining theoretical rigor and practical applications This textbook offers a comprehensive survey of artificial intelligence AI algorithms and programming organization for robot systems Readers who master the topics covered will be able to design and evaluate an artificially intelligent robot for applications involving sensing acting planning and learning A background in AI is not required the book introduces key AI topics from all AI subdisciplines throughout the book and explains how they contribute to autonomous capabilities This second edition is a major expansion and reorganization of the first edition reflecting the dramatic advances made in AI over the past fifteen years An introductory overview provides a framework for thinking about AI for robotics distinguishing between the fundamentally different design paradigms of automation and autonomy The book then discusses the reactive functionality of sensing and acting in AI robotics introduces the deliberative functions most often associated with intelligence and the capability of autonomous initiative surveys multi robot systems and in a new chapter human robot interaction and offers a metaview of how to design and evaluate autonomous systems and the ethical considerations in doing so New material covers locomotion simultaneous localization and mapping human robot interaction machine learning and ethics Each chapter includes exercises and many chapters provide case studies Endnotes point to additional reading highlight advanced topics and offer robot trivia **Algorithmic Foundations of Robotics X** Emilio Frazzoli, Tomas Lozano-Perez, Nicholas Roy, Daniela Rus, 2013-02-14 Algorithms are a fundamental component of robotic systems Robot algorithms process inputs from sensors that provide noisy and partial data build geometric and physical models of the world plan high and low level actions at different time horizons and execute these actions on actuators with limited precision The design and analysis of robot algorithms raise a unique combination of questions from many elds including control theory computational geometry and topology geometrical and physical modeling reasoning under uncertainty probabilistic algorithms game theory and theoretical computer science The Workshop on Algorithmic Foundations of Robotics WAFR is a single track meeting of leading researchers in the eld of robot algorithms Since its inception in 1994 WAFR has been held every other year and has provided one of the premiere venues for the publication of some of the eld s most important and lasting contributions This books contains the proceedings of the tenth WAFR held on June 13 15 2012 at the Massachusetts Institute of Technology The 37 papers included in this book cover a

broad range of topics from fundamental theoretical issues in robot motion planning control and perception to novel applications

Ambient Intelligence: Impact on Embedded System Design Twan Basten, Marc Geilen, Harmke de Groot, 2007-05-08 Hugo de Man Professor Katholieke Universiteit Leuven Senior Research Fellow IMEC The steady evolution of hardware software and communications technology is rapidly transforming the PC and dot com world into the world of Ambient Intelligence AmI This next wave of information technology is fundamentally different in that it makes distributed wired and wireless computing and communication disappear to the background and puts users to the foreground AmI adapts to people instead of the other way around It will augment our consciousness monitor our health and security guide us through traffic etc In short its ultimate goal is to improve the quality of our life by a quiet reliable and secure interaction with our social and material environment What makes AmI engineering so fascinating is that its design starts from studying person to world interactions that need to be implemented as an intelligent and autonomous interplay of virtually all necessary networked electronic intelligence on the globe This is a new and exciting dimension for most electrical and software engineers and may attract more creative talent to engineering than pure technology does Development of the leading technology for AmI will only succeed if the engineering research community is prepared to join forces in order to make Mark Weiser's dream of 1991 come true This will not be business as usual by just doubling transistor count or clock speed in a microprocessor or increasing the bandwidth of communication

Qualitative Spatial Reasoning M. Teresa Escrig, Francisco Toledo, 1998 With the aim of automatically reasoning with spatial aspects in a cognitive way several qualitative models have been developed recently in the Qualitative Spatial Reasoning field However there is no model to reason with several spatial aspects in a uniform way Moreover most of these models simplify spatial objects to points In this book we present a novel approach for integrating the qualitative concepts of orientation distance and cardinal directions using points as well as extended objects as primitive of reasoning based on Constraint Logic Programming The resulting model has been applied to build a qualitative Navigation Simulator on the structured environment of the city of Castellon

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