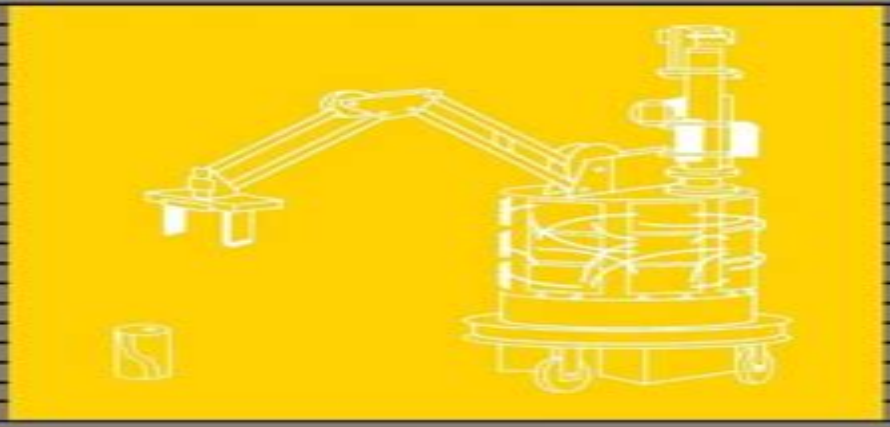
Perspectives in Artificial Intelligence

Minimalist Mobile Robotics

A Colony-style Architecture for an Artificial Creature



Jonathan H. Connell

Minimalist Mobile Robotics Perspectives In Artificial Intelligence

Cognitive Science Society (US) Conference

Minimalist Mobile Robotics Perspectives In Artificial Intelligence:

Minimalist Mobile Robotics Jonathan H. Connell,2012-12-02 Rather than using traditional artificial intelligence techniques which are ineffective when applied to the complexities of real world robot navigaiton Connell describes a methodology of reconstructing intelligent robots with distributed multiagent control systems After presenting this methodology hte author describes a complex robust and successful application a mobile robot can collection machine which operates in an unmodified offifce environment occupied by moving people *The Map-Building and Exploration Strategies of a Simple Sonar-Equipped Mobile Robot* D. C. Lee,David Lee,2003-09-18 First book to describe a way of determining the best method to use to enable a robot to navigate **Connectionist Robot Motion Planning** Bartlett Mel,2013-07-19 Connectionist Robot Motion Planning A Neurally Inspired Approach to Visually Guided Reaching is the third series in a cluster of books on robotics and related areas as part of the Perspectives in Artificial Intelligence Series This series focuses on an experimental paradigm using the MURPHY system to tackle critical issues surrounding robot motion planning MURPHY is a robot camera system developed to explore an approach to the kinematics of sensory motor learning and control for a multi link arm Organized into eight chapters this book describes the guiding of a multi link arm to visual targets in a cluttered workspace It primarily focuses on ecological solutions that are relevant to the typical visually guided reaching behaviors of humans and animals in natural environments Algorithms that work well in unmodeled workspaces whose effective layouts can change from moment to moment with movements of the eyes head limbs and body are also presented This book also examines the strengths of neurally inspired connectionist representations and the utility of heuristic search when good performance even if suboptimal is adequate for the task The co evolution of MURPHY s design with the brain presumably in response to similar computational pressures is described in the concluding chapters specifically presenting the division of labor between programmed feedforward and visual feedback modes of limb control Design engineers in the fields of biology neurophysiology and cognitive psychology will find this book of great value **Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society** Cognitive Science Society (US) Conference,2014-05-12 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 14th annual meeting of the Cognitive Science Society **Advanced Guided Vehicles: Aspects Of The Oxford Agv Project** Stephen Cameron,Penelope Probert Smith,1994-10-10 The Oxford University Robotics Research Group has been working for several years to improve the ability of automated guided vehicles This book brings together much of the key research work on sensors and planning that was inspired by an industrial vehicle donated by a factory automation division in GEC GEC FAST together with background material to provide a basic but up to date reference guide to autonomous vehicle research The book includes work on control sensing technologies sensor management and data fusion different styles of path planning suited for off line or online plans and task planning It is designed to act both as a reference for the robotics professional and

as a text for university level courses *ECAI 2000* European Coordinating Committee for Artificial Intelligence,2000 This volume covers the whole spectrum of artificial intelligence including knowledge representation automated reasoning constraint based reasoning machine learning autonomous agents human language technology planning vision and robotics and AI aspects of uncertainty and of creativity The book further includes contributions on innovative application All contributions are peer reviewed by an international Programme Committee From Animals to Animats 3 Dave Cliff,1994 August 8 12 1994 Brighton England From Animals to Animats 3 brings together research intended to advance the fron tier of an exciting new approach to understanding intelligence The contributors represent a broad range of interests from artificial intelligence and robotics to ethology and the neurosciences Unifying these approaches is the notion of animat an artificial animal either simulated by a computer or embodied in a robot which must survive and adapt in progressively more challenging environments The 58 contributions focus particularly on well defined models computer simulations and built robots in order to help characterize and compare various principles and architectures capable of inducing adaptive behavior in real or artificial animals Topics include Individual and collective behavior Neural correlates of behavior Perception and motor control Motivation and emotion Action selection and behavioral sequences Ontogeny learning and evolution Internal world models and cognitive processes Applied adaptive behavior Autonomous robots Heirarchical and parallel organizations Emergent structures and behaviors Problem solving and planning Goal directed behavior Neural networks and evolutionary computation Characterization of environments A Bradford Book **Intelligent Autonomous Systems 6** Enrico Pagello,2000 After a long period in which the research focused mainly on industrial robotics nowadays scientists aim to build machines able to act autonomously in unstructured domains and to interface friendly with humans while performing intelligently their assigned tasks Such intelligent autonomous systems are now being intensively developed and are ready to be applied to every field from social life to modern enterprises We believe the following years will be increasingly characterised by their extensive use This is dramatically changing the whole scenario of human society **Intelligent Systems for Manufacturing** Luis M. Camarinha-Matos,Hamideh Afsarmanesh,2013-06-29 Towards Intelligent Manufacturing Systems This book contains the selected articles from the third International Conference on lriformation Technology for Balanced Automation Systems in Manufacturing A rapid evolution in a number of areas leading to Intelligent Manufacturing Systems has been observ d in recent years Significant efforts are being spent on this research area namely in terms of international cooperative projects like the IMS initiative the USA NIIIP National Industrial Information Infrastructure Protocols project or the European ESPRIT programme and a growing number of conferences and workshops The importance of the Information and Communication Technologies in the manufacturing area is weIl established today The proper combination of these areas with the socio organizational issues supported by intelligent tools is however more difficult to achieve and fully justifies the need for the BASYS conference and the publication of the series of books on Balanced

Automation SyStems The first book of this series focused on the topic of Architectures and Design Methods was published in 1995 Mahy of the fundamental aspects of manufacturing and some preliminary results were presented in this book Among others the topics included Modeling and design of FMS Enterprise modeling and organization Decision support systems in manufacturing Anthropocentric systems CAE CAD CAM integration Scheduling systems Extended enterprises Multi agent system architecture Balanced flexibility Intelligent supervision systems Shop floor control and Computer aided process planning RoboCup-98: Robot Soccer World Cup II Minoru Asada,Hiroaki Kitano,2003-06-29 RoboCup is an international initiative devoted to advancing the state of the art in artificial intelligence and robotics The aims of the project and potential research directions are numerous The ultimate long range goal is to build a team of robot soccer players that can beat a human World Cup champion team This book is the second official archival publication devoted to RoboCup It documents the achievements presented at the Second International Workshop on RoboCup held in Paris France in July 1998 The book opens with an overview section provides research papers on selected technical topics and presents technical and strategic descriptions of the work of participating teams Of interest far beyond the rapidly growing RoboCup community this book is also indispensable reading for R D professionals interested in multi agent systems distributed artificial intelligence and intelligent robotics *RoboCup-97: Robot Soccer World Cup I* Hiroaki Kitano,1998-04-20 RoboCup is an international initiative devoted to advancing the state of the art in artificial intelligence and robotics The ultimate long range goal is to build a team of robot soccer players that can beat a human World Cup champion team This is the first book devoted to RoboCup It opens with an overview section presenting the history of this young initiative motivation the overall perspectives and challenges and a survey of the state of the art in the area The technical paper section presents the state of the art of the interdisciplinary research and development efforts in details essentially building on the progress achieved during the RoboCup 97 Workshop The team description contributions discuss technical and strategic aspects of the work of the participating teams **Dewey's New Logic** Thomas Burke,Tom Burke,1998-05-22 Celebrated for his work in the philosophy of education and acknowledged as a leading proponent of American pragmatism John Dewey might have had more of a reputation for his philosophy of logic had Bertrand Russell not so fervidly attacked him on the subject This book analyzes the debate between Russell and Dewey that followed the 1938 publication of Dewey s Logic The Theory of Inquiry and argues that despite Russell s early resistance Dewey s logic is surprisingly relevant to recent developments in philosophy and cognitive science Since Dewey s logic focuses on natural language in everyday experience it poses a challenge to Russell s formal syntactic conception of logic Tom Burke demonstrates that Russell misunderstood crucial aspects of Dewey s theory his ideas on propositions judgments inquiry situations and warranted assertibility and contends that logic today has progressed beyond Russell and is approaching Dewey s broader perspective Burke relates Dewey s logic to issues in epistemology philosophy of language and psychology computer science and formal semantics **Artificial Psychology** Jay

Friedenberg,2010-10-18 Is it possible to construct an artificial person Researchers in the field of artificial intelligence have for decades been developing computer programs that emulate human intelligence This book goes beyond intelligence and describes how close we are to recreating many of the other capacities that make us human These abilities include learning creativity consciousness and emotion The attempt to understand and engineer these abilities constitutes the new interdisciplinary field of artificial psychology which is characterized by contributions from philosophy cognitive psychology neuroscience computer science and robotics This work is intended for use as a main or supplementary introductory textbook for a course in cognitive psychology cognitive science artificial intelligence or the philosophy of mind It examines human abilities as operating requirements that an artificial person must have and analyzes them from a multidisciplinary approach The book is comprehensive in scope covering traditional topics like perception memory and problem solving However it also describes recent advances in the study of free will ethical behavior affective architectures social robots and hybrid human machine societies **The Knowledge Level in Expert Systems** Luc Steels,John McDermott,2014-05-10 The Knowledge Level In Expert Systems Conversations and Commentary deals with artificial intelligence cognitive science qualitative models problem solving architectures construction of knowledge bases machine learning integration knowledge sharing or reusability and mapping problem solving methods The book tackles two opposing dogmas first that control is generic so is in the inference engine and two deep and surface knowledge are different so deep knowledge belongs in a performance system The text also explains how to use SPARK a selection method in approaching the task features that can be used to select or construct the problem solving method suitable for the task An alternative method to SPARK starts with an analysis of the domain model and a classification using primitive inference steps The book also adds that expert problem solving is a form of qualitative modeling that connects other expert systems and engineering The text then describes very large knowledge bases particularly the volume of which knowledge bases can be integrated with expert systems coherence maintenance and use neutral representation of knowledge Task analysis and method selection focuses on SPARK how theories about the relation between task features and expert system solutions can be empirically validated The book also enumerates the benefits and limitations of a generic task approach and how various modules with their specific internal architectures can be integrated Programmers computer engineers computer technicians and computer instructors dealing with many aspects of computers such as programming networking engineering or design will find the book highly useful *Adaptive Neural Control of Walking Robots* Mark Randall,2001 This volume establishes a theoretical framework for the control structure for an autonomous walking robot capable of negotiating and exploring a rough terrain environment with sparse footholds In the early chapters the late Mark Randall electronic systems at the U of the West of England provides a hierarchical structure by examining the physiology neuronal control and co ordination models postulated by observing insects as well as a novel computationally efficient and principled foot trajectory generation scheme Subsequent chapters focus on the main

contribution of the research which is the stable on line neural control of complex structures The research follows a biomimetic route and is illustrated with examples and practical experimental accounts Distributed in the US by ASME c Book News Inc *Strategies for Collective Minimalist Mobile Robots* Chris Melhuish,2001-04-11 Many might think that the robot industry is not ready yet to build an abstract painter with a political theory Perhaps Melhuish engineering U of the West of England agrees because what he talks about instead is the idea of getting a whole lot of dumb robots to work together to accomplish something smart The inspiration for the approach are social insects which are limited individually yet can as a group achieve remarkable feats He presents minimalist strategies for controlling and coordinating such a system in the domains of moving through the environment creating work gangs of a desired size and acting on the environment Distributed in the US by ASME c Book News Inc **Interdisciplinary Perspectives on Contemporary Conflict Resolution** Novais, Paulo,Carneiro, Davide,2016-04-19 Since the dawn of human speech and interaction there have been conflicts among individuals regions and whole nations Disagreements miscommunications no matter the name they take conflicts will continue to be present in every field of work or study New technologies such as social media have extended people s ability to communicate and therefore dispute making additional research and practical solutions for resolving conflict all the more necessary Interdisciplinary Perspectives on Contemporary Conflict Resolution presents theoretical perspectives on the causes of diverse conflicts approaches novel disputes and the technology associated therein and provides readers with multifaceted solutions to the myriad of potential arguments and disagreements that arise as part of the human condition This interdisciplinary publication is a critical resource for researchers legal practitioners policy makers government officials and students and educators in the fields of political science communication studies and business **Artificial Intelligence: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence New Technical Books New York Public Library,1991 Prerational Intelligence: Adaptive Behavior and Intelligent Systems Without Symbols and Logic , Volume 1, Volume 2 Prerational Intelligence: Interdisciplinary Perspectives on the Behavior of Natural and Artificial Systems, Volume 3 Holk Cruse,Jeffrey Dean,Helge Ritter,2013-11-11 The present book is the product of conferences held in Bielefeld at the Center for interdisciplinary Sturlies ZiF in connection with a year long ZiF Research Group with the theme Prerational intelligence The premise ex plored by the research group is that traditional notions of intelligent behav ior which form the

basis for much work in artificial intelligence and cog nitive science presuppose many basic capabilities which are not trivial as more recent work in robotics and neuroscience has shown and that these capabilities may be best understood as ernerging from interaction and coop eration in systems of simple agents elements that accept inputs from and act upon their surroundings The main focus is on the way animals and artificial systems process in formation about their surroundings in order to move and act adaptively The analysis of the collective properties of systems of interacting agents how ever is a problern that occurs repeatedly in many disciplines Therefore contributions from a wide variety of areas have been included in order to obtain a broad overview of phenomena that demoostrate complexity arising from simple interactions or can be described as adaptive behavior arising from the collective action of groups of agents To this end we have invited contributions on topics ranging from the development of complex structures and functions in systems ranging from cellular automata genetic codes and neural connectivity to social behavior and evolution Additional contribu tions discuss traditional concepts of intelligence and adaptive behavior 1

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