

From animals to animats 7



edited by Bridget Hollan, Doris Florence, John Hollan,
Gillian Hayes, and Jean Annick Mayer

From Animals To Animats 7 Proceedings Of The Seventh International Conference

Martin V. Butz



From Animals To Animats 7 Proceedings Of The Seventh International Conference:

From Animals to Animats 7 Bridget Hallam, Dario Floreano, John Hallam, Gillian M. Hayes, Jean-Arcady Meyer, 2002
Proceedings of the Seventh International Conference on Simulation of Adaptive Behavior **Modelling Natural Action Selection** Anil K. Seth, Tony J. Prescott, Joanna J. Bryson, 2011-11-10 Action selection is the task of doing the right thing at the right time It requires the assessment of available alternatives executing those most appropriate and resolving conflicts among competing goals and possibilities Using advanced computational modelling this book explores cutting edge research into action selection in nature from a wide range of disciplines from neuroscience to behavioural ecology and even political science It delivers new insights into both detailed and systems level attributes of natural intelligence and demonstrates advances in methodological practice Contributions from leading researchers cover issues including whether biological action selection is optimal neural substrates for action selection in the vertebrate brain perceptual selection in decision making and interactions between group and individual action selection This first integrated review of action selection in nature contains a balance of review and original research material consolidating current knowledge into a valuable reference for researchers while illustrating potential paths for future studies **Artificial Life 8** Russell K. Standish, Mark Bedau, Hussein A. Abbass, 2003 How high level behaviors arise from low level rules and how understanding this relationship can suggest novel solutions to complex real world problems such as disease prevention stock market prediction and data mining on the Internet The term artificial life describes research into synthetic systems that possess some of the essential properties of life This interdisciplinary field includes biologists computer scientists physicists chemists geneticists and others Artificial life may be viewed as an attempt to understand high level behavior from low level rules for example how the simple interactions between ants and their environment lead to complex trail following behavior An understanding of such relationships in particular systems can suggest novel solutions to complex real world problems such as disease prevention stock market prediction and data mining on the Internet Since their inception in 1987 the Artificial Life meetings have grown from small workshops to truly international conferences reflecting the field's increasing appeal to researchers in all areas of science **Genetic and Evolutionary Computation – GECCO 2004** Kalyanmoy Deb, Riccardo Poli, Wolfgang Banzhaf, Hans-Georg Beyer, Edmund Burke, Paul Darwen, Dipankar Dasgupta, Dario Floreano, James A. Foster, Mark Harman, Owen Holland, Pier Luca Lanzi, Lee Spector, Andrea Tettamanzi, Dirk Thierens, Andy Tyrrell, 2004-06-01 The two volume set LNCS 3102 3103 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference GECCO 2004 held in Seattle WA USA in June 2004 The 230 revised full papers and 104 poster papers presented were carefully reviewed and selected from 460 submissions The papers are organized in topical sections on artificial life adaptive behavior agents and ant colony optimization artificial immune systems biological applications coevolution evolutionary robotics evolution strategies and evolutionary programming evolvable hardware genetic algorithms genetic programming learning classifier systems real

world applications and search based software engineering *Cognitive Robotics* Angelo Cangelosi, Minoru Asada, 2022-05-17 The current state of the art in cognitive robotics covering the challenges of building AI powered intelligent robots inspired by natural cognitive systems A novel approach to building AI powered intelligent robots takes inspiration from the way natural cognitive systems in humans animals and biological systems develop intelligence by exploiting the full power of interactions between body and brain the physical and social environment in which they live and phylogenetic developmental and learning dynamics This volume reports on the current state of the art in cognitive robotics offering the first comprehensive coverage of building robots inspired by natural cognitive systems Contributors first provide a systematic definition of cognitive robotics and a history of developments in the field They describe in detail five main approaches developmental neuro evolutionary swarm and soft robotics They go on to consider methodologies and concepts treating topics that include commonly used cognitive robotics platforms and robot simulators biomimetic skin as an example of a hardware based approach machine learning methods and cognitive architecture Finally they cover the behavioral and cognitive capabilities of a variety of models experiments and applications looking at issues that range from intrinsic motivation and perception to robot consciousness Cognitive Robotics is aimed at an interdisciplinary audience balancing technical details and examples for the computational reader with theoretical and experimental findings for the empirical scientist *Artificial Life VII* Mark A. Bedau, John S. McCaskill, Norman H. Packard, Steen Rasmussen, 2000-08-01 The term artificial life describes research into synthetic systems that possess some of the essential properties of life This interdisciplinary field includes biologists computer scientists physicists chemists geneticists and others Artificial life may be viewed as an attempt to understand high level behavior from low level rules for example how the simple interactions between ants and their environment lead to complex trail following behavior An understanding of such relationships in particular systems can suggest novel solutions to complex real world problems such as disease prevention stock market prediction and data mining on the Internet Since their inception in 1987 the Artificial Life meetings have grown from small workshops to truly international conferences reflecting the field s increasing appeal to researchers in all areas of science **State Estimation, Planning, and Behavior Selection Under Uncertainty for Autonomous Robotic Exploration in Dynamic Environments** Georgios Lidoris, 2011 Front cover Titelseite Impressum Foreword Abstract Zusammenfassung Contents 1 Introduction 1 1 Uncertainty in Real World Robotics 1 2 The Autonomous City Explorer Robot 1 3 Contributions and Thesis Outline 2 Simultaneous Localization Mapping and Tracking of Moving Objects 2 1 Robot Motion 2 1 1 Velocity Motion Model 2 1 2 Odometry Motion Model 2 2 Map Representations 2 2 1 Feature based representations 2 2 2 Occupancy Grid Maps 2 3 Simultaneous Localization And Mapping 2 3 1 EKF SLAM 2 3 2 Rao Blackwellized Grid based SLAM 2 4 Moving Object Tracking with Incrementally Constructed Maps 2 4 1 Conditional Particle Filters 2 4 2 Data Association 2 5 Experimental Results 2 6 Summary 3 Autonomous Robotic Exploration with Active Sensing 3 1 Related Work 3 2 Information Based Gaze

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Intrinsically Motivated Open-Ended Learning in Autonomous Robots Vieri Giuliano Santucci,Pierre-Yves Oudeyer,Andrew Barto,Gianluca Baldassarre,2020-02-19 **Rule-Based Evolutionary Online Learning Systems** Martin V. Butz,2006-01-04 Rule basedevolutionaryonlinelearningsystems oftenreferredtoasMichig style learning classi er systems LCSs were proposed nearly thirty years ago Holland 1976 Holland 1977 originally calling them cognitive systems LCSs combine the strength of reinforcement learning with the generali tion capabilities of genetic algorithms promising a exible online general ing solely reinforcement dependent learning system However despite several initial successful applications of LCSs and their interesting relations with a mal learning and cognition understanding of the systems remained somewhat obscured Questions concerning learning complexity or convergence remained unanswered Performance in di erent problem types problem structures c ceptspace andhypothesis spacesstayednearlyunpredictable Thisbookhas the following three major objectives 1 to establish a facetwise theory proachforLCSsthatpromotessystemanalysis understanding anddesign 2 to analyze evaluate and enhance the XCS classi er system Wilson 1995 by the means of the facetwise approach establishing a fundamental XCS learning theory 3 to identify both the major advantages of an LCS based learning approach as well as the most promising potential application areas Achieving these three objectives leads to a rigorous understanding of LCS functioning that enables the successful application of LCSs to diverse problem types and problem domains The quantitative analysis of XCS shows that the inter tive evolutionary based online learning mechanism works machine learning competitively yielding a low order polynomial learning complexity Moreover the facetwise analysis approach facilitates the successful design of more vanced LCSs including Holland s originally envisioned cognitive systems Martin V Intrinsically

Motivated Learning in Natural and Artificial Systems Gianluca Baldassarre, Marco Mirolli, 2013-03-29 It has become clear to researchers in robotics and adaptive behaviour that current approaches are yielding systems with limited autonomy and capacity for self improvement To learn autonomously and in a cumulative fashion is one of the hallmarks of intelligence and we know that higher mammals engage in exploratory activities that are not directed to pursue goals of immediate relevance for survival and reproduction but are instead driven by intrinsic motivations such as curiosity interest in novel stimuli or surprising events and interest in learning new behaviours The adaptive value of such intrinsically motivated activities lies in the fact that they allow the cumulative acquisition of knowledge and skills that can be used later to accomplish fitness enhancing goals Intrinsic motivations continue during adulthood and in humans they underlie lifelong learning artistic creativity and scientific discovery while they are also the basis for processes that strongly affect human well being such as the sense of competence self determination and self esteem This book has two aims to present the state of the art in research on intrinsically motivated learning and to identify the related scientific and technological open challenges and most promising research directions The book introduces the concept of intrinsic motivation in artificial systems reviews the relevant literature offers insights from the neural and behavioural sciences and presents novel tools for research The book is organized into six parts the chapters in Part I give general overviews on the concept of intrinsic motivations their function and possible mechanisms for implementing them Parts II III and IV focus on three classes of intrinsic motivation mechanisms those based on predictors on novelty and on competence Part V discusses mechanisms that are complementary to intrinsic motivations and Part VI introduces tools and experimental frameworks for investigating intrinsic motivations The contributing authors are among the pioneers carrying out fundamental work on this topic drawn from related disciplines such as artificial intelligence robotics artificial life evolution machine learning developmental psychology cognitive science and neuroscience The book will be of value to graduate students and academic researchers in these domains and to engineers engaged with the design of autonomous adaptive robots

Reconstructing the Cognitive World Michael Wheeler, 2005 An argument for a non Cartesian philosophical foundation for cognitive science that combines elements of Heideggerian phenomenology a dynamical systems approach to cognition and insights from artificial intelligence related robotics

Advances in Learning Classifier Systems Pier L. Lanzi, Wolfgang Stolzmann, Stewart W. Wilson, 2003-08-01 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Learning Classifier Systems IWLCS 2001 held in San Francisco CA USA in July 2001 The 12 revised full papers presented together with a special paper on a formal description of ACS have gone

through two rounds of reviewing and improvement The first part of the book is devoted to theoretical issues of learning classifier systems including the influence of exploration strategy self adaptive classifier systems and the use of classifier systems for social simulation The second part is devoted to applications in various fields such as data mining stock trading and power distribution networks

Embodied Artificial Intelligence Fumiya Iida, Rolf Pfeifer, Luc Steels, Yasuo Kuniyoshi, 2004-07-08 Originating from a Dagstuhl seminar the collection of papers presented in this book constitutes on the one hand a representative state of the art survey of embodied artificial intelligence and on the other hand the papers identify the important research trends and directions in the field Following an introductory overview the 23 papers are organized into topical sections on philosophical and conceptual issues information dynamics and morphology principles of embodiment for real world applications developmental approaches artificial evolution and self reconfiguration

Evolvable Systems: From Biology to Hardware Andy M. Tyrrell, Pauline C. Haddow, Jim Torresen, 2007-10-08 The idea of evolving machines whose origins can be traced to the cybernetics movement of the 1940s and 1950s has recently resurged in the form of the nascent field of bio inspired systems and evolvable hardware The inaugural workshop Towards Evolvable Hardware took place in Lausanne in October 1995 followed by the First International Conference on Evolvable Systems From Biology to Hardware ICES held in Tsukuba Japan in October 1996 The second ICES conference was held in Lausanne in September 1998 with the third and fourth being held in Edinburgh April 2000 and Tokyo October 2001 respectively This has become the leading conference in the field of evolvable systems and the 2003 conference promised to be at least as good as if not better than the four that preceded it The fifth international conference was built on the success of its predecessors aiming at presenting the latest developments in the field In addition it brought together researchers who use biologically inspired concepts to implement real systems in artificial intelligence artificial life robotics VLSI design and related domains We would say that this fifth conference followed on from the previous four in that it consisted of a number of high quality interesting thought provoking papers

Agents and Computational Autonomy Matthias Nickles, 2004-08-12 This book originates from the First International Workshop on Computational Autonomy Potential Risks Solutions AUTONOMY 2003 held in Melbourne Australia in July 2003 as part of AAMAS 2003 In addition to 7 revised selected workshop papers the volume editors solicited 14 invited papers by leading researchers in the area The workshop papers and the invited papers present a comprehensive and coherent survey of the state of the art of research on autonomy capturing various theories of autonomy perspectives on autonomy in different kinds of agent based systems and practical approaches to dealing with agent autonomy

EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing Anandakumar Haldorai, Arulmurugan Ramu, Sudha Mohanram, Chow Chee Onn, 2019-10-18 This proceeding features papers discussing big data innovation for sustainable cognitive computing The papers feature detail on cognitive computing and its self learning systems that use data mining pattern recognition and natural language processing NLP to mirror the way the human brain works This international

conference focuses on cognitive computing technologies from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches Topics covered include Data Science for Cognitive Analysis Real Time Ubiquitous Data Science Platform for Privacy Preserving Data Science and Internet Based Cognitive Platform The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing BDCC 2018 took place on 13 15 December 2018 in Coimbatore India Learning Classifier Systems Pier Luca Lanzi,2003-11-24 This book constitutes the refereed proceedings of the 5th International Workshop on Learning Classifier Systems IW LCS 2003 held in Granada Spain in September 2003 in conjunction with PPSN VII The 10 revised full papers presented together with a comprehensive bibliography on learning classifier systems were carefully reviewed and selected during two rounds of refereeing and improvement All relevant issues in the area are addressed Foundations of Trusted Autonomy Hussein A. Abbass,Jason Scholz,Darryn J. Reid,2018-01-15 This book establishes the foundations needed to realize the ultimate goals for artificial intelligence such as autonomy and trustworthiness Aimed at scientists researchers technologists practitioners and students it brings together contributions offering the basics the challenges and the state of the art on trusted autonomous systems in a single volume The book is structured in three parts with chapters written by eminent researchers and outstanding practitioners and users in the field The first part covers foundational artificial intelligence technologies while the second part covers philosophical practical and technological perspectives on trust Lastly the third part presents advanced topics necessary to create future trusted autonomous systems The book augments theory with real world applications including cyber security defence and space *Parallel Problem Solving from Nature - PPSN VII* Juan J. Merelo,Panagiotis Adamidis,Hans-Georg Beyer,2003-06-30 We are proud to introduce the proceedings of the Seventh International Conference on Parallel Problem Solving from Nature PPSN VII held in Granada Spain on 7 11 September 2002 PPSN VII was organized back to back with the Foundations of Genetic Algorithms FOGA conference which took place in Torremolinos Malaga Spain in the preceding week ThePPSNseriesofconferencesstartedinDortmund Germany 1 Fromthat pioneering meeting the event has been held biennially in Brussels Belgium 2 Jerusalem Israel 3 Berlin Germany 4 Amsterdam The Netherlands 5 and Paris France 6 During the Paris conference several bids to host PPSN 2002 were put forward it was decided that the conference would be held in Granada with Juan J Merelo Guerv os as General Chairman The scientific content of the PPSN conference focuses on problem solving paradigms gleaned from natural models with an obvious emphasis on those that display an innate parallelism such as evolutionary algorithms and ant colony optimization algorithms The majority of the papers however concentrate on evolutionary and hybrid algorithms as is shown in the contents of this book and itspredecessors Thiseditionoftheconferenceproceedingshasalargesectionon applications betheytoclassicalproblemsortoreal worldengineeringproblems which shows how bioinspired algorithms are extending their use in the realms of business and enterprise

Reviewing **From Animals To Animats 7 Proceedings Of The Seventh International Conference**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**From Animals To Animats 7 Proceedings Of The Seventh International Conference**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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From Animals To Animats 7 Proceedings Of The Seventh International Conference Introduction

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