

Evolutionary Robotics

E Durkheim

Evolutionary Robotics:

Evolutionary Robotics Stefano Nolfi, Dario Floreano, 2000 An overview of the basic concepts and methodologies of evolutionary robotics which views robots as autonomous artificial organisms that develop their own skills in close interaction with the environment and without human intervention Evolutionary Robotics: From Algorithms To Implementations Ling-feng Wang, Kay Chen Tan, Chee-meng Chew, 2006-07-17 This invaluable book comprehensively describes evolutionary robotics and computational intelligence and how different computational intelligence techniques are applied to robotic system design It embraces the most widely used evolutionary approaches with their merits and drawbacks presents some related experiments for robotic behavior evolution and the results achieved and shows promising future research directions Clarity of explanation is emphasized such that a modest knowledge of basic evolutionary computation digital circuits and engineering design will suffice for a thorough understanding of the material The book is ideally suited to computer scientists practitioners and researchers keen on computational intelligence techniques especially the evolutionary algorithms in autonomous robotics at both the hardware and software levels Complex Behavior in Evolutionary Robotics Lukas König, 2015-03-30 Today autonomous robots are used in a rather limited range of applications such as exploration of inaccessible locations cleaning floors mowing lawns etc However ongoing hardware improvements and human fantasy steadily reveal new robotic applications of significantly higher sophistication For such applications the crucial bottleneck in the engineering process tends to shift from physical boundaries to controller generation As an attempt to automatize this process Evolutionary Robotics has successfully been used to generate robotic controllers of various types However a major challenge of the field remains the evolution of truly complex behavior Furthermore automatically created controllers often lack analyzability which makes them useless for safety critical applications In this book a simple controller model based on Finite State Machines is proposed which allows a straightforward analysis of evolved behaviors To increase the model s evolvability a procedure is introduced which by adapting the genotype phenotype mapping at runtime efficiently traverses both the behavioral search space as well as recursively the search space of genotype phenotype mappings Furthermore a data driven mathematical framework is proposed which can be used to calculate the expected success of evolution in complex environments **Evolutionary Swarm Robotics** Vito Trianni, 2008-05-24 In this book the use of ER techniques for the design of self organising group behaviours for both simulated and real robots is introduced This research has a twofold value From an engineering perspective an automatic methodology for synthesising complex behaviours in a robotic system is described ER techniques should be used in order to obtain robust and efficient group behaviours based on self organisation From a more theoretical point of view the second important contribution brought forth by the author's experiments concerns the understanding of the basic principles underlying self organising behaviours and collective intelligence In this experimental work the evolved behaviours are analysed in order to uncover the mechanisms that have led to a certain

organisation In summary this book tries to mediate between two apparently opposed perspectives engineering and cognitive science The experiments presented and the results obtained contribute to the assessment of ER not only as a design tool but also as a methodology for modelling and understanding intelligent adaptive behaviours **Evolutionary Swarm Robotics Vito** Trianni, 2008-05-30 In this book the use of ER techniques for the design of self organising group behaviours for both simulated and real robots is introduced. The book tries to mediate between two apparently opposed perspectives engineering and cognitive science The experiments presented in the book and the results obtained contribute to the assessment of ER not only as a design tool but also as a methodology for modelling and understanding intelligent adaptive behaviours Horizons of Evolutionary Robotics Patricia A. Vargas, Ezeguiel A. Di Paolo, Inman Harvey, Phil Husbands, 2014-03-27 An authoritative overview of current research in this exciting interdisciplinary field Evolutionary Robotics Lingfeng Wang, K. C. Tan, Chee Meng Chew, 2006 This invaluable book comprehensively describes evolutionary robotics and computational intelligence and how different computational intelligence techniques are applied to robotic system design It embraces the most widely used evolutionary approaches with their merits and drawbacks presents some related experiments for robotic behavior evolution and the results achieved and shows promising future research directions Clarity of explanation is emphasized such that a modest knowledge of basic evolutionary computation digital circuits and engineering design will suffice for a thorough understanding of the material The book is ideally suited to computer scientists practitioners and researchers keen on computational intelligence techniques especially the evolutionary algorithms in autonomous robotics at both the hardware and software levels Sample Chapter's Chapter 1 Artificial Evolution Based Autonomous Robot Navigation 184 KB Contents Artificial Evolution Based Autonomous Robot Navigation Evolvable Hardware in Evolutionary Robotics FPGA Based Autonomous Robot Navigation via Intrinsic Evolution Intelligent Sensor Fusion and Learning for Autonomous Robot Navigation Task Oriented Developmental Learning for Humanoid Robots Bipedal Walking Through Reinforcement Learning Swing Time Generation for Bipedal Walking Control Using GA Tuned Fuzzy Logic Controller Bipedal Walking Stance Ankle Behavior Optimization Using Genetic Algorithm Readership Researchers in evolutionary robotics and graduate and advanced undergraduate students in computational intelligence New Horizons in Evolutionary Robotics Stéphane Doncieux, Nicolas Bredeche, Jean-Baptiste Mouret, 2011-02-17 Evolutionary Algorithms EAs now provide mature optimization tools that have successfully been applied to many problems from designing antennas to complete robots and provided many human competitive results In robotics the integration of EAs within the engineer s toolbox made tremendous progress in the last 20 years and proposes new methods to address challenging problems in various setups modular robotics swarm robotics robotics with non conventional mechanics e g high redundancy dynamic motion multi modality etc This book takes its roots in the workshop on New Horizons in Evolutionary Design of Robots that brought together researchers from Computer Science and Robotics during the IEEE RSJ International Conference on Intelligent Robots and Systems IROS 2009 in Saint Louis USA

This book features extended contributions from the workshop thus providing various examples of current problems and applications with a special emphasis on the link between Computer Science and Robotics It also provides a comprehensive and up to date introduction to Evolutionary Robotics after 20 years of maturation as well as thoughts and considerations from several major actors in the field This book offers a comprehensive introduction to the current trends and challenges in Evolutionary Robotics for the next decade Evolutionary Humanoid Robotics Malachy Eaton, 2015-02-02 This book examines how two distinct strands of research on autonomous robots evolutionary robotics and humanoid robot research are converging The book will be valuable for researchers and postgraduate students working in the areas of evolutionary robotics and bio inspired computing **Evolutionary Robotics. From Intelligent Robotics to Artificial Life Takashi** Gomi, 2001-10-05 This book constitutes the refereed proceedings of the 8th International Symposium on Evolutionary Robotics ER 2001 held in Tokyo Japan in October 2001 The seven revised full papers by the invited speakers Rodney A Brooks Dario Floreano Robert J Full Inman Harvey Owen Holland Francesco Mondada and Jordan B Pollack were carefully selected and revised for presentation in the book Among the topics addressed are imitation of life and machine consciousness autonomous vision based robots evolved robots living machines artificial evolution bioinspired artificial life locomotion and mobile robotic systems engineering Evolutionary Robotics Takashi Gomi, Springer Handbook of Robotics Bruno Siciliano, Oussama Khatib, 2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization's Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook s team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents

The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal http handbookofrobotics org Evolvability, Environments, Embodiment, & Emergence in Robotics John H. Long, Eric Aaron, Stéphane Doncieux, 2018-11-08 Embodied and evolving systems biological or robotic are interacting networks of structure function information and behavior Understanding these complex systems is the goal of the research presented in this book We address different questions and hypotheses about four essential topics in complex systems evolvability environments embodiment and emergence Using a variety of approaches we provide different perspectives on an overarching unifying question How can embodied and evolutionary robotics illuminate 1 principles underlying biological evolving systems and 2 general analytical frameworks for studying embodied evolving systems The answer model biological processes to operate develop and evolve situated embodied robots Engineering for Robotics Ana Cavalcanti, Brijesh Dongol, Rob Hierons, Jon Timmis, Jim Woodcock, 2021-07-05 The topics covered in this book range from modeling and programming languages and environments via approaches for design and verification to issues of ethics and regulation In terms of techniques there are results on model based engineering product lines mission specification component based development simulation testing and proof Applications range from manufacturing to service robots to autonomous vehicles and even robots than evolve in the real world A final chapter summarizes issues on ethics and regulation based on discussions from a panel of experts The origin of this book is a two day event entitled RoboSoft that took place in November 2019 in London Organized with the generous support of the Royal Academy of Engineering and the University of York UK RoboSoft brought together more than 100 scientists engineers and practitioners from all over the world representing 70 international institutions The intended readership includes researchers and practitioners with all levels of experience interested in working in the area of robotics and software engineering more generally The chapters are all self contained include explanations of the core concepts and finish with a discussion of directions for further work Chapters Towards Autonomous Robot Evolution Composition Separation of Roles and Model Driven Approaches as Enabler of a Robotics Software Ecosystem and Verifiable Autonomy and Responsible Robotics are available open access under a Creative Commons Attribution 4 0 International License via link springer com Robotics Alan Winfield, 2012-09-27 Robotics is a key technology in the modern world Robots are a well established part of manufacturing and warehouse automation assembling cars or washing machines and for example moving goods to and from storage racks for Internet mail order More recently robots have taken their first steps into homes and hospitals and seen spectacular success in planetary exploration Yet despite these successes robots have failed to live up to the predictions of the 1950s and 60s when it was widely thought by scientists and engineers as well as the public that by turn of the 21st century we would have intelligent robots as butlers companions or co workers This Very Short Introduction explains how it is that robotics can be both a success story and a disappointment how robots can be both ordinary and remarkable and looks at

their important developments in science and their applications to everyday life ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject guickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable Developmental Robotics Angelo Cangelosi, Matthew Schlesinger, 2015-01-23 A comprehensive overview of an interdisciplinary approach to robotics that takes direct inspiration from the developmental and learning phenomena observed in children's cognitive development Developmental robotics is a collaborative and interdisciplinary approach to robotics that is directly inspired by the developmental principles and mechanisms observed in children's cognitive development. It builds on the idea that the robot using a set of intrinsic developmental principles regulating the real time interaction of its body brain and environment can autonomously acquire an increasingly complex set of sensorimotor and mental capabilities This volume drawing on insights from psychology computer science linguistics neuroscience and robotics offers the first comprehensive overview of a rapidly growing field After providing some essential background information on robotics and developmental psychology the book looks in detail at how developmental robotics models and experiments have attempted to realize a range of behavioral and cognitive capabilities. The examples in these chapters were chosen because of their direct correspondence with specific issues in child psychology research each chapter begins with a concise and accessible overview of relevant empirical and theoretical findings in developmental psychology The chapters cover intrinsic motivation and curiosity motor development examining both manipulation and locomotion perceptual development including face recognition and perception of space social learning emphasizing such phenomena as joint attention and cooperation language from phonetic babbling to syntactic processing and abstract knowledge including models of number learning and reasoning strategies Boxed text offers technical and methodological details for both psychology and robotics experiments Simulation, Modeling, and Programming for Autonomous Robots Noriako Ando, Stephen Balakirsky, Thomas Hemker, Monica Reggiani, Oskar von Strvk. 2010-11-11 Why are the many highly capable autonomous robots that have been promised for novel applications driven by society industry and research not available day despite the tremendous progress in robotics science and systems achieved during the last decades Unfortunately steady improvements in speci c robot abilities and robot hardware have not been matched by corresponding robot performance in real world environments This is mainly due to the lack of vancements in robot software that master the development of robotic systems of ever increasing complexity In addition fundamental open problems are still awaiting sound answers while the development of new robotics applications s fersfromthelackofwidely used tools libraries and algorithms that are designed in a modular and performant manner with standardized interfaces Simulation environments are playing a major role not only in reducing development time and cost e g by systematic software or hardware in the loop testing of robot performance but also in exploring new types of robots and applications H ever their use may still be

regardedwith skepticism Seamless migration of code using robot simulators to real world systems is still a rare circumstance due to the complexity of robot world sensor and actuator modeling These challenges drive the quest for the next generation of methodologies and tools for robot development The objective of the International Conference on Simulation Modeling and ProgrammingforAutonomous Robots SIMPAR is to o er a unique forum for these topics and to bring together researchers from academia and industry to identify and solve the key issues necessary to ease the development of increasingly complex robot software Service Robotics and Mechatronics Keiichi Shirase, Seiji Aoyagi, 2009-10-24 In a world suffering from an ageing population and declining birth rate service robotics and mechatronics have an increasingly vital role to play in maintaining a safe and sustainable environment for everyone Mechatronics can be used in the reconstruction or restoration of various environments which we rely upon to survive for example the reconstruction of a city after an earthquake or the restoration of polluted waters This collection of papers was originally presented at the 7th International Conference on Machine Automation 2008 in Awaji Japan and covers a variety of new trends in service robotics and mechatronics Service Robotics and Mechatronics showcases the latest research in the area to provide researchers and scientists with an up to date source of knowledge and basis for further study as well as offering graduate students valuable **50 Years of Artificial Intelligence** Max Lungarella, 2007-12-10 This Festschrift volume published in reference material celebration of the 50th Anniversary of Artificial Intelligence includes 34 refereed papers written by leading researchers in the field of Artificial Intelligence The papers were carefully selected from the invited lectures given at the 50th Anniversary Summit of AI held at the Centro Stefano Franscini Monte Verit Ascona Switzerland July 9 14 2006 The summit provided a venue for discussions on a broad range of topics Multiagent Robotic Systems Jiming Liu, Jianbing Wu, 2018-10-08 Providing a guided tour of the pioneering work and major technical issues Multiagent Robotic Systems addresses learning and adaptation in decentralized autonomous robots Its systematic examination demonstrates the interrelationships between the autonomy of individual robots and the emerged global behavior properties of a group performing a cooperative task The author also includes descriptions of the essential building blocks of the architecture of autonomous mobile robots with respect to their requirement on local behavioral conditioning and group behavioral evolution After reading this book you will be able to fully appreciate the strengths and usefulness of various approaches in the development and application of multiagent robotic systems It covers Why and how to develop and experimentally test the computational mechanisms for learning and evolving sensory motor control behaviors in autonomous robots How to design and develop evolutionary algorithm based group behavioral learning mechanisms for the optimal emergence of group behaviors How to enable group robots to converge to a finite number of desirable task states through group learning What are the effects of the local learning mechanisms on the emergent global behaviors How to use decentralized self organizing autonomous robots to perform cooperative tasks in an unknown environment Earlier works have focused primarily on how to navigate in a spatially unknown environment given certain predefined motion behaviors What is missing however is an in depth look at the important issues on how to effectively obtain such behaviors in group robots and how to enable behavioral learning and adaptation at the group level Multiagent Robotic Systems examines the key methodological issues and gives you an understanding of the underlying computational models and techniques for multiagent systems

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