



Evolutionary Swarm Robotics Evolutionary Swarm Robotics

Vito Trianni



Evolutionary Swarm Robotics Evolutionary Swarm Robotics:

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 Swarm Robotics: A Formal Approach Heiko Hamann, 2018-02-10 This book provides an introduction to Swarm Robotics which is the application of methods from swarm intelligence to robotics It goes on to present methods that allow readers to understand how to design large scale robot systems by going through many example scenarios on topics such as aggregation coordinated motion flocking task allocation self assembly collective construction and environmental monitoring The author explains the methodology behind building multiple simple robots and how the complexity emerges from the multiple interactions between these robots such that they are able to solve difficult tasks The book can be used as a short textbook for specialized courses or as an introduction to Swarm Robotics for graduate students researchers and professionals who want a concise introduction to the field *Swarm Robotics* Erol Sahin, 2007-04-17 This book constitutes the thoroughly refereed post proceedings of the 2nd SAB 2006 International Workshop on Swarm Robotics held in Rome Italy in September October 2006 as a satellite event of SAB 2006 the 9th Conference on Simulation of Adaptive Behavior The 14 revised full papers are organized in topical sections on algorithms modeling and analysis hardware and evolutionary approaches *The Horizons of Evolutionary Robotics* Patricia A. Vargas, Ezequiel A. Di Paolo, Inman Harvey, Phil Husbands, 2014-03-28 An authoritative overview of current research in this exciting interdisciplinary field Evolutionary robotics ER aims to apply evolutionary computation techniques to the design of both real and simulated autonomous robots The Horizons of Evolutionary Robotics offers an authoritative overview of this rapidly developing field presenting state of the art research by leading scholars The result is a lively expansive survey that will be of interest to computer scientists robotics engineers neuroscientists and philosophers The contributors discuss incorporating principles from neuroscience into ER dynamical analysis of evolved agents constructing appropriate evolutionary pathways spatial cognition the coevolution of robot brains and bodies group behavior the evolution of communication translating evolved behavior into design principles the development of an evolutionary robotics based

methodology for shedding light on neural processes an incremental approach to complex tasks and the notion of mindless intelligence complex processes from immune systems to social networks as a way forward for artificial intelligence

Contributors Christos Ampatzis Randall D Beer Josh Bongard Joachim de Greeff Ezequiel A Di Paolo Marco Dorigo Dario Floreano Inman Harvey Sabine Hauert Phil Husbands Laurent Keller Michail Maniadakis Orazio Miglino Sara Mitri Renan Moiola Stefano Nolfi Michael O Shea Rainer W Paine Andy Philippides Jordan B Pollack Michela Ponticorvo Yoon Sik Shim Jun Tani Vito Trianni Elio Tuci Patricia A Vargas Eric D Vaughan 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 *AI and SWARM* Hitoshi Iba, 2019-09-12 This book provides theoretical and practical knowledge on AI and swarm intelligence It provides a methodology for EA evolutionary algorithm based approach for complex adaptive systems with the integration of several meta heuristics e g ACO Ant Colony Optimization ABC Artificial Bee Colony and PSO Particle Swarm Optimization etc These developments contribute towards better problem solving methodologies in AI The book also covers emerging uses of swarm intelligence in applications such as complex adaptive systems reaction diffusion computing and diffusion limited aggregation etc Another emphasis is its real world applications We give empirical examples from real world problems and show that the proposed approaches are successful when addressing tasks from such areas as swarm robotics silicon traffics image understanding Voronoi diagrams queuing theory and slime intelligence etc Each chapter begins with the background of the problem followed by the current state of the art techniques of the field and ends with a detailed discussion In addition the simulators based on optimizers such as PSO and ABC complex adaptive system simulation are described in detail These simulators as well as some source codes are available online on the author's website for the benefit of readers interested in getting some hands on experience of the subject The concepts presented in this book aim to promote and facilitate the effective research in swarm intelligence approaches in both theory and practice This book would

also be of value to other readers because it covers interdisciplinary research topics that encompass problem solving tasks in AI complex adaptive systems and meta heuristics 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 *The Horizons of Evolutionary Robotics* Patricia A. Vargas, Ezequiel A. Di Paolo, Inman Harvey, Phil Husbands, 2014-03-27 An authoritative overview of current research in this exciting interdisciplinary field *An Investigation of Loose Coupling in Evolutionary Swarm Robotics* Jennifer Owen, 2013

EVOLVING AGGREGATION BEHAVIORS FOR SWARM ROBOTIC SYSTEMS: A SYSTEMATIC CASE STUDY.
,2005 Evolutionary methods are shown to be useful in developing behaviors in robotics Interest in the use of evolution in swarm robotics is also on the rise However when one attempts to use artificial evolution to develop behaviors for a swarm robotic system he is faced with decisions to be made regarding some parameters of fitness evaluations and of the genetic algorithm In this thesis aggregation behavior is chosen as a case where performance and scalability of aggregation behaviors of perceptron controllers that are evolved for a simulated swarm robotic system are systematically studied with different parameter settings Using a cluster of computers to run simulations in parallel four experiments are conducted varying some of the parameters Rules of thumb are derived which can be of guidance to the use of evolutionary methods to generate other swarm robotic behaviors as well Swarm Robotics Research Kai Turing, AI, 2025-02-18 Swarm Robotics Research explores the fascinating intersection of robotics and swarm intelligence drawing inspiration from the cooperative behaviors of social insects to develop advanced multi robot systems It delves into bio inspired algorithms and decentralized control revealing how mimicking nature's strategies can lead to robust and adaptable autonomous systems For example algorithms inspired by ant colonies can optimize task allocation among robots demonstrating the power of decentralized decision making The book uniquely emphasizes practical implementations providing design guidelines for building and deploying swarm robotic

systems Progressing from foundational concepts to real world applications like agriculture and disaster relief it showcases how swarm robotics can revolutionize various fields Chapters cover algorithm design communication strategies and ethical considerations offering a comprehensive overview of the field *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 and Evolutionary Computation Johannes Josef Schneider, Mathias Sebastian Weyland, Dandolo Flumini, Rudolf Marcel Fuchslin, 2023-01-21 This book constitutes the proceedings of the 15th Italian Workshop on Artificial Life and Evolutionary Computation WIVACE 2021 held in Winterthur Switzerland in September 2022 The 14 full papers and 10 short papers presented in this volume were carefully reviewed and selected from 25 submissions The papers are organized in the following topical sections Networks Droplets Fluids and Synthetic Biology Robot Systems Computer Vision and Computational Creativity Semantic Search Artificial Medicine and Pharmacy Trade and Finance Ethics in Computational Modelling Chapters 4 5 6 7 22 and 24 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) **Designing Self-Organization in the Physical Realm** Heiko Hamann, Melanie Schranz, Wilfried Elmenreich, Vito Trianni, Carlo Pinciroli, Nicolas Bredeche, Eliseo Ferrante, 2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Handbook of Collective Robotics Serge Kernbach, 2013-05-29 This book is devoted to mechatronic chemical bacteriological biological and hybrid systems utilizing cooperative networked swarm self organizing evolutionary and bio inspired design principles and targeting underwater ground air and space applications It addresses issues such as open ended evolution self replication self development reliability scalability energy foraging adaptivity and artificial sociality The book has been prepared by 52 authors from world leading research groups in 14 countries This book covers not only current but also future key technologies and is aimed at anyone who is interested in learning more about collective robotics and how it might affect our society

Swarm Intelligence Christian Blum, Daniel Merkle, 2008-09-24 Swarm intelligence is a modern artificial intelligence discipline that is concerned with the design of multiagent systems with applications e.g. in optimization and in robotics The design paradigm for these systems is fundamentally different from more traditional approaches Instead of a sophisticated controller that governs the global behavior of the system the swarm intelligence principle is based on many unsophisticated entities that cooperate in order to exhibit a desired behavior Inspiration for the design of these systems is taken from the collective behavior of social insects such as ants termites bees and wasps as well as from the behavior of other animals societies such as flocks of birds or schools of fish Colonies of social insects have mesmerized researchers for many years However the principles that govern their behavior remained unknown for a long time Even though the single members of these societies are unsophisticated individuals they are able to achieve complex tasks in cooperation Coordinated behavior emerges from relatively simple actions or interactions between the individuals

Distributed Evolution for Swarm Robotics Suranga D. Hettiarachchi, 2007 *Symbiotic Multi-Robot Organisms* Paul Levi, Serge Kernbach, 2010-05-18 This book examines the evolution of self organised multicellular structures and the remarkable transition from unicellular to multicellular life It shows the way forward in developing new robotic entities that are versatile cooperative and self configuring

A Closer Look at Adaptation Mechanisms in Simulated Environment-driven Evolutionary Swarm Robotics Andreas Siegfried Wilhelm Steyven, 2017

Swarm Intelligence Marco Dorigo, Mauro Birattari, Christian Blum, Anders L. Christensen, Andrea Giovanni Reina, Vito Trianni, 2018-10-22 This book constitutes the proceedings of the 11th International Conference on Swarm Intelligence ANTS 2018 held in Rome Italy in October 2018 The 24 full papers and 12 short papers presented in this volume were carefully reviewed and selected from 69 submissions They are devoted to the field of swarm intelligence as a whole without any bias towards specific research directions

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