

**Satoshi Murata
Haruhisa Kurokawa**

Self-Organizing Robots



Springer

Self Organizing Robots Springer Tracts In Advanced Robotics

**Bilan, Stepan Mykolayovych, Bilan,
Mykola Mykolayovych, Motornyuk,
Ruslan Leonidovich**

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Self-Organizing Robots Satoshi Murata, Haruhisa Kurokawa, 2012-01-21 It is man s ongoing hope that a machine could somehow adapt to its environment by reorganizing itself This is what the notion of self organizing robots is based on The theme of this book is to examine the feasibility of creating such robots within the limitations of current mechanical engineering The topics comprise the following aspects of such a pursuit the philosophy of design of self organizing mechanical systems self organization in biological systems the history of self organizing mechanical systems a case study of a self assembling self repairing system as an autonomous distributed system a self organizing robot that can create its own shape and robotic motion implementation and instrumentation of self organizing robots and the future of self organizing robots All topics are illustrated with many up to date examples including those from the authors own work The book does not require advanced knowledge of mathematics to be understood and will be of great benefit to students in the robotics discipline including in the areas of mechanics control electronics and computer science It is also an important source for researchers who wish to investigate the field of robotics or who have an interest in the application of self organizing phenomena

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Bio-Inspired Self-Organizing Robotic Systems Yan Meng, Yaochu Jin, 2011-05-11 Self organizing approaches inspired from biological systems such as social insects genetic molecular and cellular systems under morphogenesis and human mental development has enjoyed great success in advanced robotic systems that need to work in dynamic and changing environments Compared with classical control methods for robotic systems the major advantages of bio inspired self organizing robotic systems include robustness self repair and self healing in the presence of system failures and or malfunctions high adaptability to environmental changes and autonomous self organization and self reconfiguration without a centralized control Bio inspired Self organizing Robotic Systems provides a valuable reference for scientists

practitioners and research students working on developing control algorithms for self organizing engineered collective systems such as swarm robotic systems self reconfigurable modular robots smart material based robotic devices unmanned aerial vehicles and satellite constellations

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

New Horizons in Evolutionary Robotics Stéphane Doncieux, Nicolas Bredeche, Jean-Baptiste Mouret, 2011-02-14 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

New Methods and Paradigms for Modeling Dynamic Processes Based on Cellular Automata Bilan, Stepan Mykolayovych, Bilan, Mykola Mykolayovych, Motornyuk, Ruslan Leonidovich, 2020-10-16 The accelerating development of computer technology and communications can replace many of the functions of human intellectual activity as well as help them in making decisions in various situations of their lives To implement intelligent functions for various purposes numerous models paradigms architectures and hardware and software are being developed Because the world is constantly evolving there is a need to constantly study various dynamic processes to determine possible negative situations that can lead to undesirable catastrophic phenomena and changes Recently more attention has been paid to the study of natural processes in nature Scientific works are appearing that describe the behavior and development of living organisms and the processes of their interaction Cellular automata are increasingly used to describe and model them New Methods and Paradigms for Modeling Dynamic Processes Based on Cellular Automata is a

collection of innovative research that describes the models and paradigms of building cellular automata that allows for the simulation of the dynamics of the interaction of living organisms from a different scientific point of view For this asynchronous cellular automata with a dynamically changing number of living cells are used The chapters describe the theoretical concepts of constructing asynchronous cellular automata with active cells Much attention is paid to the use of the proposed theoretical principles for solving modeling problems and solving specific applied problems of forming pseudorandom sequences and image processing based on modeling of the human visual channel Featuring research on topics such as colony interaction image processing and recognition and influence mode this book is ideally designed for engineers programmers software developers researchers academicians and students

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

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

Innovative Technology at the Interface of Finance and Operations Volodymyr Babich, John R. Birge, Gilles Hilary, 2022-01-01 This book examines the challenges and opportunities arising from an assortment of technologies as they relate to Operations Management and Finance The book contains primers on operations finance and their interface After that each section contains chapters in the categories of theory applications case studies and teaching resources These technologies and business models include Big Data and Analytics Artificial Intelligence Machine Learning Blockchain IoT 3D printing sharing platforms crowdfunding and crowdsourcing The balance between theory applications and teaching materials make this book an interesting read for academics and practitioners in operations and finance who are curious about the role of new technologies The book is an attractive choice for PhD level courses and for self study

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

Self Organizing Robots Springer Tracts In Advanced Robotics Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Self Organizing Robots Springer Tracts In Advanced Robotics**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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