



SELF-

RECONFIGURABLE ROBOTS

An Introduction

KASPER STOY,
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Self Reconfigurable Robots An Introduction Intelligent Robotics And Autonomous Agents Series

**Alexei V. Samsonovich, Valentin V.
Klimov**



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Self-reconfigurable Robots Kasper Stoy, David Brandt, David J. Christensen, 2010 A comprehensive survey of the growing field of self reconfigurable robots that discusses the history of the field design considerations and control strategies Self reconfigurable robots are constructed of robotic modules that can be connected in many different ways These modules move in relationship to each other which allows the robot as a whole to change shape This shapeshifting makes it possible for the robots to adapt and optimize their shapes for different tasks Thus a self reconfigurable robot can first assume the shape of a rolling track to cover distance quickly then the shape of a snake to explore a narrow space and finally the shape of a hexapod to carry an artifact back to the starting point The field of self reconfigurable robots has seen significant progress over the last twenty years and this book collects and synthesizes existing research previously only available in widely scattered individual papers offering an accessible guide to the latest information on self reconfigurable robots for researchers and students interested in the field Self Reconfigurable Robots focuses on conveying the intuition behind the design and control of self reconfigurable robots rather than technical details Suggestions for further reading refer readers to the underlying sources of technical information The book includes descriptions of existing robots and a brief history of the field discussion of module design considerations including module geometry connector design and computing and communication infrastructure an in depth presentation of strategies for controlling self reconfiguration and locomotion and exploration of future research challenges

Biologically Inspired Cognitive Architectures (BICA) for Young Scientists Alexei V. Samsonovich, Valentin V. Klimov, 2017-07-25 This book includes papers from the second year of the prestigious First International Early Research Career Enhancement School FIERCES series a successful new format that puts a school in direct connection with a conference and a social program all dedicated to young scientists Reflecting the friendly social atmosphere of excitement and opportunity the papers represent a good mixture of cutting edge research focused on advances towards the most inspiring challenges of our time and first ambitious attempts at major challenges by as yet unknown talented young scientists In this second year of FIERCES the BICA Challenge to replicate all the essential aspects of the human mind in the digital environment meets the Cybersecurity Challenge to protect all the essential assets of the human mind in the digital environment which is equally important in our age As a result the book fosters lively discussions on today's hot topics in science and technology and stimulates the emergence of new cross disciplinary cross generation and cross cultural collaboration FIERCES 2017 or the First International Early Research Career Enhancement School on Biologically Inspired Cognitive Architectures and Cybersecurity was held on August 15 at the Baltschug Kempinski in Moscow Russia

Advances in Intelligent Robotics and Collaborative Automation Richard Duro, Yuriy Kondratenko, 2022-09-01 This book provides an overview of a series of advanced research lines in robotics as well as of design and development methodologies for intelligent robots and their intelligent components It represents a selection of

extended versions of the best papers presented at the Seventh IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems Technology and Applications IDAACS 2013 that were related to these topics Its contents integrate state of the art computational intelligence based techniques for automatic robot control to novel distributed sensing and data integration methodologies that can be applied to intelligent robotics and automation systems The objective of the text was to provide an overview of some of the problems in the field of robotic systems and intelligent automation and the approaches and techniques that relevant research groups within this area are employing to try to solve them The contributions of the different authors have been grouped into four main sections Robots Control and Intelligence Sensing Collaborative automationThe chapters have been structured to provide an easy to follow introduction to the topics that are addressed including the most relevant references so that anyone interested in this field can get started in the area

Soft Robotics Cecilia Laschi,2025-09-02 A comprehensive cutting edge treatment of soft robotics that brings conceptual structure to this fast moving field Soft robotics is quickly transforming corners of our world but as yet there has been no comprehensive treatment of the young field Filling this gap Soft Robotics offers a systematic approach to learning the subject s essential ideas methods and techniques Cecelia Laschi takes a holistic view that integrates interdisciplinary material and provides a conceptual structure that can withstand the discipline s fast paced evolution Laschi first presents robotics basics and the commonly used bioinspired methods before covering materials and technologies for actuation and sensing modeling internal and external interactions and soft robot control with model based and learning based approaches Written by a pioneer of the field and honed by classroom experience this timely textbook is an essential roadmap for anyone studying soft robotics Comprehensive structured coverage of soft robotics from fundamentals to advanced techniques Pragmatic modular structure adapts to different curricula Suitable for advanced undergraduates graduate students and professionals Instructor resources include slides videos and exercises

[Introduction to AI Robotics, second edition](#) Robin R. Murphy,2019-10-01 A comprehensive survey of artificial intelligence algorithms and programming organization for robot systems combining theoretical rigor and practical applications This textbook offers a comprehensive survey of artificial intelligence AI algorithms and programming organization for robot systems Readers who master the topics covered will be able to design and evaluate an artificially intelligent robot for applications involving sensing acting planning and learning A background in AI is not required the book introduces key AI topics from all AI subdisciplines throughout the book and explains how they contribute to autonomous capabilities This second edition is a major expansion and reorganization of the first edition reflecting the dramatic advances made in AI over the past fifteen years An introductory overview provides a framework for thinking about AI for robotics distinguishing between the fundamentally different design paradigms of automation and autonomy The book then discusses the reactive functionality of sensing and acting in AI robotics introduces the deliberative functions most often associated with intelligence and the capability of autonomous initiative surveys multi robot systems and

in a new chapter human robot interaction and offers a metaview of how to design and evaluate autonomous systems and the ethical considerations in doing so New material covers locomotion simultaneous localization and mapping human robot interaction machine learning and ethics Each chapter includes exercises and many chapters provide case studies Endnotes point to additional reading highlight advanced topics and offer robot trivia

Unmanned Systems of World Wars I and II H. R. Everett, 2015-11-06 The first comprehensive technical history of air land sea and underwater unmanned systems by a distinguished U S Navy roboticist Military drones have recently been hailed as a revolutionary new technology that will forever change the conduct of war And yet the United States and other countries have been deploying such unmanned military systems for more than a century Written by a renowned authority in the field this book documents the forgotten legacy of these pioneering efforts offering the first comprehensive historical and technical accounting of unmanned air land sea and underwater systems Focusing on examples introduced during the two world wars H R Everett meticulously traces their development from the mid nineteenth century to the early Cold War A pioneering Navy roboticist Everett not only describes these systems in detail but also reverse engineers the designs in order to explain how they operated in real world conditions of the time More than 500 illustrations photographs drawings and plans many of them never before published accompany the text Everett covers the evolution of early wire guided submersibles tracing the development of power propulsion communication and control radio controlled surface craft deployed by both Germany and Great Britain in World War I radio controlled submersibles radio controlled aircraft including the TDR 1 assault drone project in World War II which laid the groundwork for subsequent highly classified drone programs and remote controlled ground vehicles including the Wehrmacht s Goliath and Borgward demolition carriers

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

Applications of Evolutionary Computing Anna I. Esparcia-Alcázar, 2013-03-12 This book constitutes the refereed proceedings of the International Conference on the Applications of Evolutionary Computation EvoApplications 2013 held in Vienna Austria in April 2013 colocated with the Evo 2013 events EuroGP EvoCOP EvoBIO and EvoMUSART The 65 revised full papers presented were carefully reviewed and selected from 119 submissions EvoApplications 2013 consisted of the following 12 tracks EvoCOMNET nature inspired techniques for telecommunication networks and other parallel and distributed systems EvoCOMPLEX evolutionary algorithms and complex systems EvoENERGY evolutionary computation in

energy applications EvoFIN evolutionary and natural computation in finance and economics EvoGAMES bio inspired algorithms in games EvoIASP evolutionary computation in image analysis signal processing and pattern recognition EvoINDUSTRY nature inspired techniques in industrial settings EvoNUM bio inspired algorithms for continuous parameter optimization EvoPAR parallel implementation of evolutionary algorithms EvoRISK computational intelligence for risk management security and defence applications EvoROBOT evolutionary computation in robotics and EvoSTOC evolutionary algorithms in stochastic and dynamic environments

Distributed Autonomous Robotic Systems Hajime Asama, Toshio Fukuda, Tamio Arai, Isao Endo, 2012-12-06 As a new strategy to realize the goal of flexible robust fault tolerant robotic systems the distributed autonomous approach has quickly established itself as one of the fastest growing fields in robotics This book is one of the first to devote itself solely to this exciting area of research covering such topics as self organization communication and coordination multi robot manipulation and control distributed system design distributed sensing intelligent manufacturing systems and group behavior The fundamental technologies and system architectures of distributed autonomous robotic systems are expounded in detail along with the latest research findings This book should prove indispensable not only to those involved with robotic engineering but also to those in the fields of artificial intelligence self organizing systems and coordinated control

Advanced Knowledge Application in Practice Igor Fuerstner, 2010-11-02 The integration and interdependency of the world economy leads towards the creation of a global market that offers more opportunities but is also more complex and competitive than ever before Therefore widespread research activity is necessary if one is to remain successful on the market This book is the result of research and development activities from a number of researchers worldwide covering concrete fields of research

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