

F. Hara · R. Pfeifer (Eds.)

# Morpho-functional Machines: The New Species

Designing Embodied Intelligence



Springer

# Morpho Functional Machines The New Species Designing Embodied Intelligence

**Padhraic Smyth**

## **Morpho Functional Machines The New Species Designing Embodied Intelligence:**

Morpho-functional Machines: The New Species F. Hara,R. Pfeifer,2011-06-28 Morpho functional Machines are a set of tools for investigating the design of embodied intelligence in autonomous bio artifact systems The focus in Morpho functional Machines is on the balance of morphology materials and control intelligent behavior emerges from the interaction of an autonomous system with a real world environment How then should body morphology body materials and sensory systems be designed to achieve a certain set of tasks or desired behaviors in a particular environment This and other questions were addressed at the International Workshop on Morpho functional Machines held in Tokyo in 2001 Collected here are the revised papers from the workshop providing a new perspective for understanding embodied intelligence Presenting the innovative concept of Morpho functional Machines this book is a valuable source for scientists and engineers working in ethnology cognitive sciences robotic engineering and artificial intelligence

*Embodied Artificial Intelligence* Fumiya Iida,Rolf Pfeifer,Luc Steels,Yasuo Kuniyoshi,2004-07-02 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

**Biomimetics** Yoseph Bar-Cohen,2005-11-02 Nature is the world s foremost designer With billions of years of experience and boasting the most extensive laboratory available it conducts research in every branch of engineering and science Nature s designs and capabilities have always inspired technology from the use of tongs and tweezers to genetic algorithms and autonomous legged robots

**From Animals to Animats 11** Stephane Doncieux,Benoit Girard,Agnès Guillot,John Hallam,Jean-Arcady Meyer,Jean-Baptiste Mouret,2010-08-11

**Distributed Autonomous Robotic Systems**

Alcherio Martinoli,Francesco Mondada,Nikolaus Correll,Grégory Mermoud,Magnus Egerstedt,M. Ani Hsieh,Lynne E. Parker,Kasper Støy,2012-09-05 Distributed robotics is a rapidly growing interdisciplinary research area lying at the intersection of computer science communication and control systems and electrical and mechanical engineering The goal of the Symposium on Distributed Autonomous Robotic Systems DARS is to exchange and stimulate research ideas to realize advanced distributed robotic systems This volume of proceedings includes 43 original contributions presented at the Tenth International Symposium on Distributed Autonomous Robotic Systems DARS 2010 which was held in November 2010 at the cole Polytechnique F d rale de Lausanne EPFL Switzerland The selected papers in this volume are authored by leading researchers from Asia Europa and the Americas thereby providing a broad coverage and perspective of the state of the art technologies algorithms system architectures and applications in distributed robotic systems The book is organized into four parts each representing one critical and long term research thrust in the multi robot community distributed sensing Part I

localization navigation and formations Part II coordination algorithms and formal methods Part III modularity distributed manipulation and platforms Part IV **Evolutionary Computation** Wellington Santos,2009-10-01 This book presents several recent advances on Evolutionary Computation specially evolution based optimization methods and hybrid algorithms for several applications from optimization and learning to pattern recognition and bioinformatics This book also presents new algorithms based on several analogies and metafore where one of them is based on philosophy specifically on the philosophy of praxis and dialectics In this book it is also presented interesting applications on bioinformatics specially the use of particle swarms to discover gene expression patterns in DNA microarrays Therefore this book features representative work on the field of evolutionary computation and applied sciences The intended audience is graduate undergraduate researchers and anyone who wishes to become familiar with the latest research work on this field **Neuroconstructivism: Perspectives and prospects** Denis Mareschal,2007 What are the processes from conception to adulthood that enable a single cell to grow into a sentient adult The processes that occur along the way are so complex that any attempt to understand development necessitates a multi disciplinary approach integrating data from cognitive studies computational work and neuroimaging an approach till now seldom taken in the study of child development Neuroconstructivism is a major new 2 volume publication that seeks to redress this balance presenting an integrative new framework for considering development Computer and robotic models provide concrete tools for investigating the processes and mechanisms involved in learning and development Volume 2 illustrates the principles of Neuroconstructivist development with contributions from 9 different labs across the world Each of the contributions illustrates how models play a central role in understanding development The models presented include standard connectionist neural network models as well as multi agent models Also included are robotic models emphasizing the need to take embodiment and brain system interactions seriously A model of Autism and one of Specific Language Impairment also illustrate how atypical development can be understood in terms of the typical processes of development but operating under restricted conditions This volume complements Volume 1 by providing concrete examples of how the Neuroconstructivist principles can be grounded within a diverse range of domains thereby shaping the research agenda in those domains ***Genetic and Evolutionary Computation Conference*** Hans-Georg Beyer,2005

**Artificial Life X** Luis Mateus Rocha,2006 Proceedings from the Tenth International Conference on Artificial Life marking two decades of interdisciplinary research in this growing scientific community Artificial Life is an interdisciplinary effort to investigate the fundamental properties of living systems through the simulation and synthesis of life like processes in artificial media The field brings a powerful set of tools to the study of how high level behavior can arise in systems governed by simple rules of interaction This tenth volume marks two decades of research in this interdisciplinary scientific community a period marked by vast advances in the life sciences The field has contributed fundamentally to our understanding of life itself through computer models and has led to novel solutions to complex real world problems from

disease prevention to stock market prediction across high technology and human society The proceedings of the biennial A life conference which has grown over the years from a small workshop in Santa Fe to a major international meeting reflect the increasing importance of the work to all areas of contemporary science     **How the Body Shapes the Way We Think** Rolf Pfeifer,Josh Bongard,Simon Grand,2007 An exploration of embodied intelligence and its implications points toward a theory of intelligence in general with case studies of intelligent systems in ubiquitous computing business and management human memory and robotics How could the body influence our thinking when it seems obvious that the brain controls the body In How the Body Shapes the Way We Think Rolf Pfeifer and Josh Bongard demonstrate that thought is not independent of the body but is tightly constrained and at the same time enabled by it They argue that the kinds of thoughts we are capable of have their foundation in our embodiment in our morphology and the material properties of our bodies This crucial notion of embodiment underlies fundamental changes in the field of artificial intelligence over the past two decades and Pfeifer and Bongard use the basic methodology of artificial intelligence understanding by building to describe their insights If we understand how to design and build intelligent systems they reason we will better understand intelligence in general In accessible nontechnical language and using many examples they introduce the basic concepts by building on recent developments in robotics biology neuroscience and psychology to outline a possible theory of intelligence They illustrate applications of such a theory in ubiquitous computing business and management and the psychology of human memory Embodied intelligence as described by Pfeifer and Bongard has important implications for our understanding of both natural and artificial intelligence     **Evolutionary Dynamics of 3D Digital Constructs** Jason Michael Stredwick,2005     *Science* John Michels (Journalist),2007 A weekly record of scientific progress     **Parallel Problem Solving from Nature--PPSN ...** ,2004     **ロボット: Robotto interijensu** ,2004     **ロボットロボット** ,2003     **The British National Bibliography** Arthur James Wells,2003     **ロボット** ,2005     **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen** ,2003     **Verzeichnis lieferbarer Bücher** ,2002

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