Self-Organization, Computational Maps, and Motor Control

Pietro Morasso
Vittorio Sanguineti
Editors

Self Organization Computational Maps And Motor Control

E. Oja,Samuel Kaski

Self Organization Computational Maps And Motor Control:

    <u>Self-Organization, Computational Maps, and Motor Control</u> P.G. Morasso,V. Sanguineti,1997-03-19 In the study of the computational structure of biological robotic sensorimotor systems distributed models have gained center stage in recent years with a range of issues including self organization non linear dynamics field computing etc This multidisciplinary research area is addressed here by a multidisciplinary team of contributors who provide a balanced set of articulated presentations which include reviews computational models simulation studies psychophysical and neurophysiological experiments The book is divided into three parts each characterized by a slightly different focus in part I the major theme concerns computational maps which typically model cortical areas according to a view of the sensorimotor cortex as geometric engine and the site of internal models of external spaces Part II also addresses problems of self organization and field computing but in a simpler computational architecture which although lacking a specialized cortical machinery can still behave in a very adaptive and surprising way by exploiting the interaction with the real world Finally part III is focused on the motor control issues related to the physical properties of muscular actuators and the dynamic interactions with the world The reader will find different approaches on controversial issues such as the role and nature of force fields the need for internal representations the nature of invariant commands the vexing question about coordinate transformations the distinction between hierachiacal and bi directional modelling and the influence of muscle stiffness **Self-organizing Map Formation** Klaus Obermayer,Terrence Joseph Sejnowski,2001 This book provides an overview of self organizing map formation including recent developments Self organizing maps form a branch of unsupervised learning which is the study of what can be determined about the statistical properties of input data without explicit feedback from a teacher The articles are drawn from the journal Neural Computation The book consists of five sections The first section looks at attempts to model the organization of cortical maps and at the theory and applications of the related artificial neural network algorithms The second section analyzes topographic maps and their formation via objective functions The third section discusses cortical maps of stimulus features The fourth section discusses self organizing maps for unsupervised data analysis The fifth section discusses extensions of self organizing maps including two surprising applications of mapping algorithms to standard computer science problems combinatorial optimization and sorting Contributors J J Atick H G Barrow H U Bauer C M Bishop H J Bray J Bruske J M L Budd M Budinich V Cherkassky J Cowan R Durbin E Erwin G J Goodhill T Graepel D Grier S Kaski T Kohonen H Lappalainen Z Li J Lin R Linsker S P Luttrell D J C MacKay K D Miller G Mitchison F Mulier K Obermayer C Piepenbrock H Ritter K Schulten T J Sejnowski S Smirnakis G Sommer M Svensen R Szeliski A Utsugi C K I Williams L Wiskott L Xu A Yuille J Zhang **Kohonen Maps** E. Oja,Samuel Kaski,1999-07-02 The Self Organizing Map or Kohonen Map is one of the most widely used neural network algorithms with thousands of applications covered in the literature It was one of the strong underlying factors in the popularity of neural networks starting in the early 80 s Currently this method has

been included in a large number of commercial and public domain software packages In this book top experts on the SOM method take a look at the state of the art and the future of this computing paradigm The 30 chapters of this book cover the current status of SOM theory such as connections of SOM to clustering classification probabilistic models and energy functions Many applications of the SOM are given with data mining and exploratory data analysis the central topic applied to large databases of financial data medical data free form text documents digital images speech and process measurements Biological models related to the SOM are also discussed **Kinetics of Human Motion** Vladimir M. Zatsiorsky,2002 This book focuses on the examination of forces that create entire body motion **Blackwell Handbook of Language Development** Erika Hoff,Marilyn Shatz,2009-05-11 The Blackwell Handbook of Language Development provides a comprehensive treatment of the major topics and current concerns in the field exploring the progress of 21st century research its precursors and promising research topics for the future Provides comprehensive treatments of the major topics and current concerns in the field of language development Explores foundational and theoretical approaches Focuses on the 21st century s research into the areas of brain development computational skills bilingualism education and cross cultural comparison Looks at language development in infancy through early childhood as well as atypical development Considers the past work present research and promising topics for the future Broad coverage makes this an excellent resource for graduate students in a variety of disciplines **Action As An Organizer of Learning and Development** John J. Rieser,Jeffrey J. Lockman,Charles A. Nelson,2005-04-26 This is the 33rd volume in the Minnesota Symposium on Child Psychology held in October 2002 The symposium was held to honor the scientific and mentoring contributions of Anne Danielson Pick and Herbert L Pick Jr two longtime and beloved professors of the Institute of Child Development It focused on Action as an Organizer of Learning and Development and integrated the best and most innovative research on the role of action in perceiving and understanding Taken together the book captures the intellectual excitement that characterized the 33rd symposium and appeals to developmental psychologists particularly those interested in perceptual development

Computational Intelligence Kurosh Madani,António Dourado,Agostinho Rosa,Joaquim Filipe,2012-12-22 The present book includes a set of selected extended papers from the third International Joint Conference on Computational Intelligence IJCCI 2011 held in Paris France from 24 to 26 October 2011 The conference was composed of three co located conferences The International Conference on Fuzzy Computation ICFC the International Conference on Evolutionary Computation ICEC and the International Conference on Neural Computation ICNC Recent progresses in scientific developments and applications in these three areas are reported in this book IJCCI received 283 submissions from 59 countries in all continents This book includes the revised and extended versions of a strict selection of the best papers presented at the conference **Literature and the Brain** Norman Norwood Holland,2009 LITERATURE AND THE BRAIN goes straight to the human core of literature when it explains the different ways our brains convert stories poems plays and films into pleasure When we are deep into a

film or book we find ourselves absorbed unaware of our bodies or our surroundings We don t doubt the existence of Spider Man or Harry Potter and we have real feelings about these purely imaginary beings Our brains are behaving oddly because we know we cannot act to change what we are seeing This is only one of the special ways our brains behave to with literature ways that LITERATURE AND THE BRAIN reveals 474 pp 13 ill **Springer Handbook of Computational Intelligence** Janusz Kacprzyk,Witold Pedrycz,2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured **Sensory Cue Integration** Julia Trommershauser,Konrad Kording,Michael S. Landy,2011 This book provides an introduction into both computational models and experimental paradigms that are concerned with sensory cue integration both within and between sensory modalities Importantly across behavioral electrophysiological and theoretical approaches Bayesian statistics is emerging as a common language in which cue combination problems can be expressed This book focuses on the emerging probabilistic way of thinking about these problems These approaches derive from the realization that all our sensors are noisy and moreover are often affected by ambiguity For example mechanoreceptor outputs are variable and they cannot distinguish if a perceived force is caused by the weight of an object or by force we are producing ourselves The computational approaches described in this book aim at formalizing the uncertainty of cues They describe cue combination as the nervous system s attempt to minimize uncertainty in its estimates and to choose successful actions Some computational approaches described in the chapters of this book are concerned with the application of such statistical ideas to real world cue combination problems such as shape and depth perception Other parts of the book ask how uncertainty may be represented in the nervous system and used for cue combination The broadening scope of probabilistic approaches to cue combination is highlighted in the breadth of topics covered in this book the chapters summarize and discuss computational approaches and behavioral evidence aimed at understanding the combination of visual auditory proprioceptive and haptic cues Some chapters address the combination of cues within a single sensory modality while others address the combination across sensory modalities Neural implementation behavior and theory are considered The unifying aspect of this book is the focus on the uncertainty intrinsic to sensory cues and the underlying question of how the nervous system deals with this uncertainty The book is intended as a reference text for graduate students and professionals in perceptual psychology computational neuroscience cognitive neuroscience and sensory neurophysiology **Advances In Mobile Robotics - Proceedings Of The Eleventh**

International Conference On Climbing And Walking Robots And The Support Technologies For Mobile Machines Lino Marques,Anibal T De Almeida,Mohammad Osman Tokhi,Gurvinder S Virk,2008-08-29 This book provides state of the art scientific and engineering research findings and developments in the area of mobile robotics and associated support technologies It contains peer reviewed articles presented at the CLAWAR 2008 conference Robots are no longer confined to industrial manufacturing environments rather a great deal of interest is invested in the use of robots outside the factory environment The CLAWAR conference series established as a high profile international event acts as a platform for dissemination of research and development findings to address the current interest in mobile robotics in meeting the needs of mankind in various sectors of the society These include personal care public health and services in the domestic public and industrial environments The editors of the book have extensive research experience and publications in the area of robotics in general and in mobile robotics specifically   **Audiovisual Speech Processing** Gérard Bailly,Pascal Perrier,Eric Vatikiotis-Bateson,2012-04-26 This book presents a complete overview of all aspects of audiovisual speech including perception production brain processing and technology   *Augmentation of Brain Function: Facts, Fiction and Controversy* Mikhail Lebedev,Ioan Opris,Manuel F. Casanova ,2018-09-14 Volume I entitled Augmentation of Brain Functions Brain Machine Interfaces is a collection of articles on neuroprosthetic technologies that utilize brain machine interfaces BMIs BMIs strive to augment the brain by linking neural activity recorded invasively or noninvasively to external devices such as arm prostheses exoskeletons that enable bipedal walking means of communication and technologies that augment attention In addition to many practical applications BMIs provide useful research tools for basic science Several articles cover challenges and controversies in this rapidly developing field such as ways to improve information transfer rate BMIs can be applied to the awake state of the brain and to the sleep state as well BMIs can augment action planning and decision making Importantly BMI operations evoke brain plasticity which can have long lasting effects Advanced neural decoding algorithms that utilize optimal feedback controllers are key to the BMI performance BMI approach can be combined with the other augmentation methods such systems are called hybrid BMIs Overall it appears that BMI will lead to many powerful and practical brain augmenting technologies in the future   *Climbing and Walking Robots* Manuel Armada,Pablo González de Santos,2006-01-16 Interest in climbing and walking robots CLAWAR has increased remarkably over recent years Novel solutions for complex and very diverse application fields exploration intervention in severe environments personal services emergency rescue operations transportation entertainment medical etc have been anticipated by great progress in this area of robotics This book contains the proceedings of the 7th Climbing and Walking Robots 2004 CLAWAR 2004 Conference offering the international scientific community one of the most excellent forums for academics researchers and industrialists interested in this motivating area of climbing and walking robots It provides a wide forum of original state of the art contributions from various industrial and new emerging research fields presenting a full picture of climbing and walking

robots The conference held in Madrid Spain September 22 24 2004 was organized by the Thematic Network CLAWAR 2 and funded by the European Commission under the GROWTH Program   **Internet Applications** Lucas Chi-Kwong Hui,Dik Lun Lee,2004-02-02 This book constitutes the refereed proceedings of the 5th International Computer Science Conference ICSC 99 held in Hong Kong China in December 1999 The 30 revised full papers presented together with 30 short papers were carefully reviewed and selected from 80 submissions The book is divided into sections on information filtering data mining Web databases user interfaces modeling information retrieval workflow applications active networks mobility and distributed databases protocols distributed systems information retrieval and filtering Web technologies and e commerce   **Strength and Power in Sport** Paavo Komi,2008-04-15 The second edition of this broadly based book continues to examine and update the basic and applied aspects of strength and power in sport from the neurophysiology of the basic motor unit to training for specific activities Authorship is again international and includes leading physiologists and clinicians   **Adaptive Motion of Animals and Machines** Hiroshi Kimura,Kazuo Tsuchiya,Akio Ishiguro,Hartmut Witt,2006-07-28 Motivation It is our dream to understand the principles of animals remarkable ability for adaptive motion and to transfer such abilities to a robot Up to now mechanisms for generation and control of stereotyped motions and adaptive motions in well known simple environments have been formulated to some extentandsuccessfullyappliedtorobots However principlesofadaptationto variousenvironmentshavenotyetbeenclari ed andautonomousadaptation remains unsolved as a seriously di cult problem in robotics Apparently the ability of animals and robots to adapt in a real world cannot be explained or realized by one single function in a control system and mechanism That is adaptation in motion is induced at every level from thecentralnervoussystemtothemusculoskeletalsystem Thus weorganized the International Symposium on Adaptive Motion in Animals and Machines AMAM forscientistsandengineersconcernedwithadaptation onvariouslevelstobebroughttogethertodiscussprinciplesateachlevelandl to investigate principles governing total systems History AMAM started in Montreal Canada in August 2000 It was organized by H Kimura Japan H Witte Germany G Taga Japan and K Osuka Japan who had agreed that having a small symposium on motion control with people from several elds coming together to discuss speci c issues was worthwhile Those four organizing committee members determined the scope of AMAM as follows   *From Fragments to Objects* Thomas F. Shipley,Philip J. Kellman,2001-11-30 This book addresses the problem of how the human visual system organizes inputs that are fragmented in space and time into coherent stable perceptual units objects In doing so it addresses the following questions what kinds of segmentation and grouping abilities exist in human perceivers What information and computational processes achieve segmentation and grouping What are the psychological consequences of perceiving whole objects From Fragments to Objects Segmentation and Grouping in Vision takes a comprehensive cognitive science approach to object perception brings together separate lines of research in object perception in one volume gives an integrated and up to date review of theory and empirical research and offers directions for

future study Jacket **Towards an Understanding of the Relationship between Spatial Processing Ability and Numerical and Mathematical Cognition** Sharlene D. Newman,Firat Soylu,2020-02-20 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 Artificial And Natural Perception: Proceedings Of The 2nd Italian Conference On Sensors And Microsystems Corrado Di Natale,Arnaldo D'amico,Fabrizio A M Davide,1998-01-15 This book contains a number of articles concerning the artificial perception of reality as can be perceived by a sensor and its interaction with natural human perception through the senses For the first time a link between the sensor s field and the more general perception theory is attempted Besides the book offers a unique insight provided by the research on sensors and microsystems currently being carried out in Italy It covers the typical area of sensors and microsystems chemical and biological sensors physical sensors and micromechanics

This book delves into Self Organization Computational Maps And Motor Control. Self Organization Computational Maps And Motor Control is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Self Organization Computational Maps And Motor Control, encompassing both the fundamentals and more intricate discussions.

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