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CHANEL EILEEN

Submarine Geomorphology Springer Science & Business Media

This book aims at finding some answers to the questions: What is the influence of humans in controlling CAD and how much is human in control of its surroundings? How far does our reach as humans really go? Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality? How much data do we have and can we control? Are today's inventions reversing the humanly controlled algorithms into a space where humans are controlled by the algorithms? Are processing power, robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really bring us further into the fields of constructing and architecture? The chapter authors were invited speakers at the 6th Symposium "Design Modelling Symposium: Humanizing Digital Reality", which took place in Ensa-Versailles, France from 16 - 20 September 2017.

Nonlinear, Distributed, and Time Delay Systems-I Springer Science & Business Media

The 33rd Annual German Conference on Artificial Intelligence (KI 2010) took place at the Karlsruhe

Institute of Technology KIT, September 21-24, 2010, under the motto "Anthropomatic Systems." In this volume you will find the keynote paper and 49 papers of oral and poster presentations. The papers were selected from 73 submissions, resulting in an acceptance rate of 67%. As usual at the KI conferences, two entire days were allocated for targeted workshops—seventhis year—andone tutorial. The workshopand tutorialmaterials are not contained in this volume, but the conference website, www.ki2010.kit.edu, will provide information and references to their contents. Recent trends in AI research have been focusing on anthropomatic systems, which address synergies between humans and intelligent machines. This trend is emphasized through the topics of the overall conference program. They include learning systems, cognition, robotics, perception and action, knowledge representation and reasoning, and planning and decision making. Many topics deal with uncertainty in various scenarios and incompleteness of knowledge. Summarizing, KI 2010 provides a cross section of recent research in modern AI methods and anthropomatic system applications. We are very grateful that Jos' edel Mill' an, Hans-Hellmut Nagel, Carl Edward Rasmussen, and David Vernon accepted our invitation to give a talk.

Neural Fuzzy Control Systems with Structure and Parameter Learning EOLSS Publications
 Foundations of Robotics presents the fundamental concepts and methodologies for the analysis,

design, and control of robot manipulators. It explains the physical meaning of the concepts and equations used, and it provides, in an intuitively clear way, the necessary background in kinetics, linear algebra, and control theory. Illustrative examples appear throughout. The author begins by discussing typical robot manipulator mechanisms and their controllers. He then devotes three chapters to the analysis of robot manipulator mechanisms. He covers the kinematics of robot manipulators, describing the motion of manipulator links and objects related to manipulation. A chapter on dynamics includes the derivation of the dynamic equations of motion, their use for control and simulation and the identification of inertial parameters. The final chapter develops the concept of manipulability. The second half focuses on the control of robot manipulators. Various position-control algorithms that guide the manipulator's end effector along a desired trajectory are described Two typical methods used to control the contact force between the end effector and its environments are detailed For manipulators with redundant degrees of freedom, a technique to develop control algorithms for active utilization of the redundancy is described. Appendixes give compact reviews of the function atan2, pseudo inverses, singular-value decomposition, and Lyapunov stability theory. Tsuneo Yoshikawa teaches in the Division of Applied Systems Science in Kyoto University's Faculty of Engineering.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume IX Springer Science & Business Media
This book presents selected contributions to the 16th International Conference on Global Research and Education Inter-Academia 2017 hosted by Alexandru Ioan Cuza University of Iași, Romania from 25 to 28 September 2017. It is the third volume in the series, following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution, in the course of which information technology has become deeply embedded in industrial management, research and innovation – and just as deeply in education and everyday life. Materials science and nanotechnology, plasma and solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

Control Systems, Robotics and Automation – Volume XI Springer

A general neural-network-based connectionist model, called Fuzzy Neural Network (FNN), is proposed in this book for the realization of a fuzzy logic control and decision system. The FNN is a feedforward multi-layered network which integrates the basic elements and functions of a traditional fuzzy logic controller into a connectionist structure which has distributed learning abilities. In order to set up this proposed FNN, the author recommends two complementary structure/parameter learning algorithms: a two-phase hybrid learning algorithm and an on-line supervised structure/parameter learning algorithm. Both of these learning algorithms require exact supervised training data for learning. In some real-time applications, exact training data may be expensive or even impossible to get. To solve this reinforcement learning problem for real-world applications, a Reinforcement Fuzzy Neural Network (RFNN) is further proposed. Computer simulation examples are presented to illustrate the performance and applicability of the proposed FNN, RFNN and their associated learning algorithms for various applications.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume IV EOLSS Publications

This book aims at providing students and researchers an advanced integrative overview on zooplankton ecology, covering marine and freshwater organisms, from microscopic phagotrophic protists, to macro-jellyfishes and active fish larvae. The first book section addresses zooplanktonic organisms and processes, the second section is devoted to zooplankton spatial and temporal distribution patterns and trophic dynamics, and the final section is dedicated to emergent methodological approaches (e.g., omics). Book chapters include comprehensive synthesis, observational and manipulative studies, and sediment-based analysis, a vibrant imprint of benthic-pelagic coupling and ecosystem connectivity. Most chapters also address the impacts of anticipated environmental changes (e.g., warming, acidification).

Robotics EOLSS Publications

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume X Elsevier

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.

Port-Hamiltonian Systems Theory Springer Science & Business Media

Kirchhoff's laws give a mathematical description of electromechanics. Similarly, translational motion mechanics obey Newton's laws, while rotational motion mechanics comply with Euler's moment equations, a set of three nonlinear, coupled differential equations. Nonlinearities

complicate the mathematical treatment of the seemingly simple action of rotating, and these complications lead to a robust lineage of research culminating here with a text on the ability to make rigid bodies in rotation become self-aware, and even learn. This book is meant for basic scientifically inclined readers commencing with a first chapter on the basics of stochastic artificial intelligence to bridge readers to very advanced topics of deterministic artificial intelligence, espoused in the book with applications to both electromechanics (e.g. the forced van der Pol equation) and also motion mechanics (i.e. Euler's moment equations). The reader will learn how to bestow self-awareness and express optimal learning methods for the self-aware object (e.g. robot) that require no tuning and no interaction with humans for autonomous operation. The topics learned from reading this text will prepare students and faculty to investigate interesting problems of mechanics. It is the fondest hope of the editor and authors that readers enjoy the book.

Continuum Mechanics and Thermodynamics EOLSS Publications

At the dawn of the new millennium, robotics is undergoing a major transformation in scope and dimension. From a largely dominant industrial focus, robotics is rapidly expanding into the challenges of unstructured environments. Interacting with, assisting, serving, and exploring with humans, the emerging robots will increasingly touch people and their lives. The goal of this new series of Springer Tracts in Advanced Robotics is to bring, in a timely fashion, the latest advances and developments in robotics on the basis of their significance and quality. It is our hope that the greater dissemination of research developments will stimulate more exchanges and collaborations among the research community and contribute to further advancement of this rapidly growing field. As one of robotics pioneering symposia, ISRR, the "International Symposium on Robotics Research," has established over the past two decades some of the field's most fundamental and lasting contributions. With the launching of STAR, this and other thematic symposia devoted to excellence in robotics and an important platform for closer links and extended reach within the research community. The Tenth edition of "Robotics Research" edited by Raymond Jarvis and Alex Zelinsky offers insights into a part of a volume collection of a broad range of topics in robotics. The content of these contributions provides a wide coverage of the current state of robotics research: the advances and challenges in its theoretical foundation and technology basis, and the developments in its traditional and new areas of applications.

Springer Science & Business Media

Agricultural Mechanization and Automation is a component of Encyclopedia of Food and Agricultural Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The mechanization of farming practices throughout the world has revolutionized food production, enabling it to maintain pace with population growth except in some less-developed countries, most notably in Africa. Agricultural mechanization has involved the partial or full replacement of human energy and animal-powered equipment (e.g. plows, seeders and harvesters) by engine-driven equipment. The theme on Agricultural Mechanization and Automation cover six main topics: Technology and Power in Agriculture; Farm Machinery; Facilities and Equipment for Livestock Management; Environmental Monitoring; Recovery and Use of Wastes and by-Products; Slaughtering and Processing of Livestock, which are then expanded into multiple subtopics, each as a chapter. These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

Advanced Control Systems-IV CRC Press

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

KI 2010: Advances in Artificial Intelligence Academic Press

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Analysis and Control EOLSS Publications

Port-Hamiltonian Systems Theory: An Introductory Overview provides a concise and easily accessible description of the foundations underpinning the subject and emphasizes novel developments in the field, which will be of interest to a broad range of researchers.

Nonlinear, Distributed, and Time Delay Systems-III Springer

This book presents a 360-degree picture of the world of insects and explores how their existence affects our lives: the "good, bad, and ugly" aspects of their interactions with humankind. It provides a lucid introductory text for beginning undergraduate students in the life sciences, particularly those pursuing beginner courses in entomology, agriculture, and botany.

An Introductory Overview Springer

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Fuzzy and Intelligent Control Systems EOLSS Publications

"What does "ecology" mean if this concept cannot be grounded anymore in an essentialist and clear-cut separation of nature and culture, nature and man, human and non-human, as Deleuze and Guattari - in both their individual and collective works - suggest? "[M]an and nature are not like two opposite terms confronting each other - not even in the sense of bipolar opposites within a relationship of causation, ideation, or expression (cause and effect, subject and object, etc); rather they are one and the same essential reality, the producer-product" (Anti-Oedipus 4-5)."
"Deleuze/Guattari's "generalized ecology" turns Ecology into a complex transdisciplinary project linking philosophy, art, sociology, literature, politics, music, history, the hard and soft sciences. Deleuze/Guattari offer a perspective on ecology as a comprehensive natural ontology of complex material systems, without falling into the trap of the Cartesian dualism of "nature" and "culture" that is still operative in much of the mainstream of ecological/ecocritical approaches."--BOOK JACKET.

Control Systems, Robotics and Automation – Volume XVII EOLSS Publications

Adaptronics is the term encompassing technical fields that have become known internationally under the names "smart materials", "intelligent structures", and "smart structures". Adaptronics contributes to the optimisation of systems and products. It bridges the gap between material and system or product, and incorporates the search for multi-functional materials and elements and their integration in systems or structures. The authors of this book have taken on the task of displaying the current state of the art in this fascinating field. The system components, actuators, sensors and controllers, technical fundamentals, materials, design rules and practical solutions are all described. Selected sample applications are also presented and current development trends are demonstrated.

Modelling and Control of Robot Manipulators MIT Press

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Second SAB 2006 International Workshop, Rome, Italy, September 30-October 1, 2006 Revised

Selected Papers BoD – Books on Demand

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