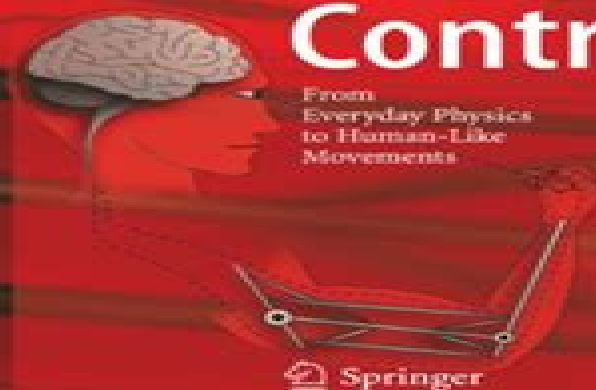


Sadao Kawamura
Mikhail Svinin
Editors

Advances in Robot Control

From
Everyday Physics
to Human-Like
Movements



 Springer

Kawamura · Svinin (Eds.)

 Advances in Robot Control

Kawamura · Svinin (Eds.)
Advances in Robot Control

This volume provides a unique collection of papers written in honor of the 70th birthday of Professor Kawamura who has long been recognized as a pioneer in the field of robot control. A summary of his research is reflected in this book, which includes contributions from leading experts in the field, who have also been closely associated with Professor Kawamura at various stages in his distinguished career. The book is built around two themes: the physics-based robot control for coping with the so-called everyday physics problems on one hand, and the challenge of reproducing beautiful, human-like movements on the other hand. These themes defined much of Kawamura's research in the field of robot control and are the cornerstone of his perception of human robotics. Topics covered in the book address natural motion and adaptive control of robot manipulators, visual sensing, sensory-based and iterative learning control, controlled phenomena for multi-link systems, force control of bipedal gait and muscle-activated systems, modeling and analysis of human-like movements in reaching and grasping tasks. Each chapter is self-contained and treats the subject collectively and in depth. This volume will provide an important reference for graduate students and researchers, as well as for engineers and scientists working in the field of robotics.



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Advances in Robot Control

Advances In Robot Control From Everyday Physics To Human Like Movements

**Vincent D. Blondel, Stephen P.
Boyd, Hidenori Kimura**



Advances In Robot Control From Everyday Physics To Human Like Movements:

Advances in Robot Control Sadao Kawamura, Mikhail Svinin, 2007-07-17 Robotics is still a young science but we can already identify the people who defined its primary course of development Suguru Arimoto is one of them His early works laid the foundations of what nowadays is called modern robot control and we believe it is both appropriate and necessary to write a book on recent advances in this field in the context of his scientific interests While presenting recent advances in robot control is the main intention of this book we also think it is appropriate to highlight Suguru Arimoto's research career main scientific achievements and his personality too This can be very inspiring and instructive especially for young researchers What are the most remarkable features of Suguru Arimoto On the personal side his vitality is striking He is always focused on a research target and it is always a fun and a pleasure to discuss with him scientific problems and to learn from him His passion to explain things that might not appear obvious is endless It is very encouraging to younger researchers that at this stage of his career he is still a very active approachable and in util researcher and a person who leads by example On the scientific side we should stress his research philosophy He believes that the final result should be simple and have a clear physical or physiological in his recent research interpretation *Advances in Robot Control*, 2006

Advances in Haptics Mehrdad Hosseini Zadeh, 2010-04-01 Haptic interfaces are divided into two main categories force feedback and tactile Force feedback interfaces are used to explore and modify remote virtual objects in three physical dimensions in applications including computer aided design computer assisted surgery and computer aided assembly Tactile interfaces deal with surface properties such as roughness smoothness and temperature Haptic research is intrinsically multi disciplinary incorporating computer science engineering control robotics psychophysics and human motor control By extending the scope of research in haptics advances can be achieved in existing applications such as computer aided design CAD tele surgery rehabilitation scientific visualization robot assisted surgery authentication and graphical user interfaces GUI to name a few *Advances in Haptics* presents a number of recent contributions to the field of haptics Authors from around the world present the results of their research on various issues in the field of haptics *Synergy* Mark L. Latash, 2008-03-18 *Synergy* discusses a general problem in biology The lack of an adequate language for formulating biologically specific problems Written for an inquisitive reader who is not necessarily a professional in the area of movement studies this book describes the recent progress in the control and coordination of human movement The book begins with a brief history of movement studies and reviews the current central controversies in the area of control of movements with an emphasis on the equilibrium point hypothesis An operational definition of synergy is introduced and a method of analysis of synergies is described based on the uncontrolled manifold hypothesis Further this method is used to characterize synergies in a variety of tasks including such common motor tasks as standing pointing reaching standing up and manipulation of hand held objects Applications of this method to movements by persons with neurological disorders persons with atypical development and healthy elderly persons are

illustrated as well as changes in motor synergies with practice Possible neurophysiological mechanisms of synergies are also discussed with the focus on such conspicuous structures as the spinal cord the cerebellum the basal ganglia and the cortex of the large hemispheres A variety of models are discussed based on different computational and neurophysiological principles Possible applications of the introduced definition of synergies to other areas such as perception and language are discussed

Recent Advances in Learning and Control Vincent D. Blondel, Stephen P. Boyd, Hidenori Kimura, 2008-01-11 This volume is composed of invited papers on learning and control The contents form the proceedings of a workshop held in January 2008 in Hyderabad that honored the 60th birthday of Doctor Mathukumalli Vidyasagar The 14 papers written by international specialists in the field cover a variety of interests within the broader field of learning and control The diversity of the research provides a comprehensive overview of a field of great interest to control and system theorists

Sensorimotor Control of Grasping Dennis A. Nowak, Joachim Hermsdörfer, 2009-06-25 The human hand can take on a huge variety of shapes and functions providing its owner with a powerful hammer at one time or a delicate pair of forceps at another The universal utility of the hand is even more enhanced by the ability to amplify the function of the hand by using tools To understand and appreciate how the human brain controls movements of the hand it is important to investigate both the healthy motor behaviour and dysfunction during everyday manipulative tasks This book provides a contemporary summary of the physiology and pathophysiology of the manipulative and exploratory functions of the human hand With contributions from scientists and clinical researchers of biomechanics kinesiology neurophysiology psychology physical medicine and rehabilitation it covers the development of healthy human grasping over the lifespan the wide spectrum of disability in the pathological state and links basic motor research with modern brain sciences

Advances in Telerobotics Manuel Ferre, Martin Buss, Rafael Aracil, Claudio Melchiorri, Carlos Balaguer, 2007-08-10 A fascinating book that covers in detail all of the most recent advances in Telerobotics A must read for scientists researchers and students in teleoperation it describes everything from methods and experimental results to applications and developments Its three sections cover human system interfaces control and applications

Analysis and Control of Output Synchronization for Complex Dynamical Networks Jin-Liang Wang, Huai-Ning Wu, Tingwen Huang, Shun-Yan Ren, 2018-08-14 This book introduces recent results on output synchronization of complex dynamical networks with single and multiple weights It discusses novel research ideas and a number of definitions in complex dynamical networks such as H Infinity output synchronization adaptive coupling weights multiple weights the relationship between output strict passivity and output synchronization Furthermore it methodically edits the research results previously published in various flagship journals and presents them in a unified form The book is of interest to university researchers and graduate students in engineering and mathematics who wish to study output synchronization of complex dynamical networks

Recent Advances in Nonlinear Dynamics and Synchronization Kyandoghene Kyamakya, Herwig Unger, Jean Chamberlain Chedjou, Nikolai F. Rulkov, Zhong Li, 2009-09-30 In essence the

dynamics of real world systems i.e. engineered systems, natural systems, social systems etc. is nonlinear. The analysis of this nonlinear character is generally performed through both observational and modeling processes aiming at deriving appropriate models, mathematical, logical, graphical etc. to simulate or mimic the spatiotemporal dynamics of the given systems. The complex intrinsic nature of these systems i.e. nonlinearity and spatiotemporal dynamics can lead to striking dynamical behaviors such as regular or irregular, stable or unstable, periodicity or multi periodicity, torus or chaotic dynamics. The various potential applications of the knowledge about such dynamics in technical sciences, engineering are being intensively demonstrated by diverse ongoing research activities worldwide. However, both the modeling and the control of the nonlinear dynamics in a range of systems is still not yet well understood, e.g. system models with time varying coefficients, immune systems, swarm intelligent systems, chaotic and fractal systems, stochastic systems, self-organized systems etc. This is due amongst others to the challenging task of establishing a precise and systematic fundamental or theoretical framework, e.g. methods and tools to analyze, understand, explain and predict the nonlinear dynamical behavior of these systems in some cases even in real time. The full insight in systems nonlinear dynamic behavior is generally achieved through approaches involving analytical, numerical and/or experimental methods.

Image-Based and Fractional-Order Control for Mechatronic Systems Cosmin Copot, Clara Mihaela Ionescu, Cristina I. Muresan, 2020-04-10

This book unites two fast developing forms of control: vision based control and fractional order control and applies them in mechatronic systems. *Image Based and Fractional Order Control for Mechatronic Systems* is presented in two parts covering the theory and applications of the subject matter. The theoretical material presents the concepts of visual servoing and image based feature extraction for feedback loops and fractional order control. It discusses a range of systems from the classic monocular camera to new RGB-D sensors. The applications part of the book first discusses practical issues with the implementation of fractional order control comparing them with more traditional integer order PID systems. The authors then introduce real life examples such as a manipulator robot and a Stewart platform and results generated from such systems. MATLAB functions and source codes are included wherever relevant to help readers develop simulations based on the theoretical ideas and practical examples in the text. Suggestions for the use of other pertinent open source software are also indicated with the places where such may be obtained. With its combination of theoretical ideas and practical examples, *Image Based and Fractional Order Control for Mechatronic Systems* will be of interest to academic researchers looking to develop the fields of vision based and fractional order control and to engineers who are looking for developments that will help them provide closer control of their plants than can be achieved with integer order PID. *Advances in Industrial Control* reports and encourages the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

Reviewing **Advances In Robot Control From Everyday Physics To Human Like Movements**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Advances In Robot Control From Everyday Physics To Human Like Movements**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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