Manual Robot Reis

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Modelado dinámico y control de un robot flexible de tres grados de libertad[- 2001
A lo largo de esta tesis ha quedado de manifiesto el amplio interes e importancia que esta tomando la robotica flexible, si bien la gran mayoria de los trabajos cientificos y tecnicos en este campo están orientados al estudio de robots flexibles de uno ó dos grados de libertad. -Se ha desarrollado un prototipo de robots flexible de 3 grados de libertad y prestaciones industriales que se considera pionero en su campo. Este trabajo ha sido desarrollado de forma conjunta por la E.T.S. De Ingenieros Industriales de la U.N.E.D. Y la E.T.S.I. Industriales de la Universidad de Castilla-la Mancha. -Se presenta un método de modelado dinamico basado en la hipótesis de una masa concentrada en el extremo que tiene una buena correspondencia con el sistema real y que roesulta conceptual y computacionalmente muy simple. -Se ha desarrollado un sistema de control a partir de esquemas previos para robots de uno y dos grados de libertad. Este esquema de control esta basado en la inversión dinámica del sistema. A partir del modelo dinámico, con lo que se consigue un algoritmo de control muy simple y eficiente que permite su fácil implantación en un computador de tiempo real. -Un estudio de la estabilidad según Lyapunov indica que el algoritmo presenta estabilidad asintótica global. -Se presentan resultados experimentales que validan tanto el modelo dinámico como el algoritmo de control no sólo en el entorno de un punto sino en el seguimiento de trayectorias. -Estos resultados abren nuevos caminos en el diseño y control de manipuladores flexibles con especificaciones cada vez más próximas a las de un robot industrial. Finalmente, se presenta un estudio de la estabilidad del esquema de control cuando la carga del extremo difiere de la nominal.
Industrial Robots - 1983

World Robotics - 1998

International Manual of Oncology Practice - Ramon Andrade De Mello 2019-10-15
Cancer is a very aggressive disease and currently it has been considered a challenge to oncologists and cancer patients worldwide. Nowadays, several therapeutic strategies had improved toward last decades. Surgery is many times still the best curative treatment, mainly in early stage disease. However, Radiotherapy and chemotherapy acquired a main role in this scenario. Target therapies were introduced for medical oncology practice and are demonstrating a hallmark of a new era in cancer treatment. More recently, immunotherapy has been considered the novel cornerstone in cancer treatment. The 2nd edition of the International Manual of Oncology Practice (iMOP) emerged after the great success of the iMOP 1st edition as a reference for medical oncologists and medical residents in the field. In this edition, several chapters were revised and its addresses from the molecular issues of cancer sciences to the clinical practice in medical oncology. In addition, multiple choice questions and clinical cases were included in the main chapters in

order to improve the reader learning. The book focuses systemic treatments in many areas of medical oncology, such as breast cancer, gastrointestinal, thoracic, urological oncology, head and neck tumors, bone tumors, sarcomas and palliative care. The topics herein discussed will provide the readers a step forward in the medical oncology practice understanding and give facilities for help in cancer patient treatments.

Proceedings of the International Symposium and Exposition on Robots - 1994

ROBOT2022: Fifth Iberian Robotics Conference - Danilo Tardioli 2022-11-18

This book contains a selection of papers accepted for presentation and discussion at ROBOT 2022—Fifth Iberian Robotics Conference, held in Zaragoza, Spain, on November 23-25, 2022. ROBOT 2022 is part of a series of conferences that are a joint organization of SEIDROB—Sociedad Española para la Investigación y Desarrollo en Robótica/Spanish Society for Research and Development in Robotics, and SPR—Sociedade Portuguesa de Robótica/Portuguese Society for Robotic. ROBOT 2022 builds upon several previous successful events, including three biennial workshops and the four previous editions of the Iberian Robotics Conference, and is focused on presenting the research and development of new applications, on the field of Robotics, in the Iberian Peninsula, although open to research and delegates from other countries. ROBOT 2022 featured four plenary talks on state-of-the-art subjects on robotics and 15 special sessions, plus a main/general robotics track. In total, after a careful review process, 98 high-quality papers were selected for publication, with a total of 219 unique authors, from 22 countries.

Recent Advances in Information Systems and Technologies - Álvaro Rocha 2017-03-27

This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human–Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications.

Steel Times - 1992

Robotics Industry Directory - 2001

Sharing CIM Solutions - J. K. H. Knudsen 1994

This work is the result of the proceedings of the 10th Annual Conference '94: ESPRIT CIM-Europe. It reports on the results in development and implementation of CIM technologies. The key technologies which are being developed, and the results emerging from the collaborative projects, have contributed to the establishment of an integrative approach to manufacturing problems which embraces engineering, logistics, process automation, business functions, organizational and environmental concerns.

Gamification: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2015-03-31

Serious games provide a unique opportunity to engage students more fully than traditional teaching approaches. Understanding the best way to utilize games and play in an educational setting is imperative for effectual learning in the twenty-first century. Gamification: Concepts, Methodologies, Tools, and Applications investigates the use of games in education, both inside and outside of the classroom, and how this field once thought to be detrimental to student learning can be used to augment more formal models. This four-volume reference work is a premier source for educators, administrators, software designers, and all stakeholders in all levels of education.

Machine Tools Production Systems 3 - Christian Brecher 2021

The first part of this third volume focuses on the design of mechatronic components, in particular the feed drives of machine tools used to generate highly dynamic drive movements. Engineering guides for the selection and design of important machine components, the control technology of feed drives, and the measuring systems required for position capture are presented. Another focus is on process and diagnostic equipment for manufacturing machines and systems. The second part describes control concepts including programming methods for various applications of modern production systems. Programmable logic controllers (PLC), numerical controllers (NC) and robot controllers (RC) are part of these presentations. In the context of automated manufacturing systems, the various levels of the automation pyramid and the importance of control systems are also outlined. Finally, the volume deals with the engineering of machines and plants. The German Machine Tools and Production Systems Compendium has been completely revised. The previous five-volume series has been condensed into three volumes in the new ninth edition with colored technical illustrations throughout. This first English edition is a translation of the German ninth edition. Prof. Christian Brecher was elected as university professor for the Chair of Machine Tools at the Laboratory for Machine Tools and Production Engineering (WZL) of the RWTH Aachen University in 2004. He is also a member of the board of directors of the Laboratory for Machine Tools and Production Engineering (WZL) and of the Fraunhofer Institute for Production Technology (IPT), Aachen. He focuses on machine, transmission and control technology. Since 2012, as a co-founding member together with Prof. Hopmann, Prof. Brecher is head of the Aachen Center for Integrative Lightweight Production (AZL) of the RWTH Aachen University. Since 2018, Prof. Brecher has been head of the Fraunhofer Institute for Production Technology (IPT). Since 2019, he has been the spokesperson for the "Internet of Production" Cluster of Excellence at the RWTH Aachen University. Prof. em. Dr.-Ing. Dr.-Ing. E. h. Dr.-Ing. E.h. Manfred Weck was head of the Chair of Machine Tools at the Laboratory for Machine Tools and Production Engineering (WZL) of the RWTH Aachen University from 1973 to 2004. Since its foundation in 1980 until 2004, he was also Director and Head of the Department for Production Machines of the Fraunhofer Institute for Production Technology (IPT), Aachen. He founded the AiF Research Community "Ultraprazisionstechnik e.V." Ultraprecision technology) in 1988. Over the years, Prof. Weck received various honors and awards, amongst them the SME Frederick W. Taylor Research Medal in 2007 and the Acceptance into the Hall of Fame of the Manager Magazine in 2015. Furthermore, Prof. Weck received the Aachen Engineering Prize in 2017, honoring him for his lifes work

Agricultural Robots - Jun Zhou 2019-01-03

Over the past few decades, extensive research has been conducted on the applications of agricultural robots and automation to a variety of field and greenhouse operations, and technical fundamentals and their feasibility have also been widely demonstrated. Due to the unstructured environment, adverse interference and complicated and diversified operation process are the key of blocking its commercialization in robotic agricultural operations. Because of the development of automation techniques, smart sensors, and information techniques, some types of agricultural robots have achieved considerable success in recent years. This book intends to provide the reader with a comprehensive overview of the current state of the art in agricultural robots, fundamentals, and applications in robotic agricultural operations.

Robotic Colorectal Surgery - Peter Coyne 2022-12-17

This book provides a concise overview of the robotic techniques applicable to colorectal surgery. Initially, it describes how to set-up an operating room from an ergonomics perspective. Detailed guidance is then provided on how to apply robotic platforms to the rectum, colon and abdominal wall. Emphasis is placed on describing the latest procedures and how to utilize them in a particular scenario. Instructional picture material and tips and tricks from world leading experts contain tips on how

to successfully perform many of the techniques covered, enabling the reader to systematically develop a detailed knowledge of the methodology and how to potentially troubleshoot any issues that may arise. Robotic Colorectal Surgery: Complete Manual of Surgical Techniques describes how to apply the latest robotic techniques in everyday colorectal surgery practice, making it an indispensable resource for trainee and practicing surgeons.
Robotics Product Database - 1988

Practical Motion Planning in Robotics - Kamal K. Gupta 1998-10-15
Practical Motion Planning in Robotics Current Approaches and Future Directions Edited by Kamal Gupta Simon Fraser University, Burnaby, Canada Angel P. del Pobil Jaume-l University, Castellon, Spain Designed to bridge the gap between research and industry, Practical Motion Planning in Robotics brings theoretical advances to bear on real-world applications. Capitalizing on recent progress, this comprehensive study emphasizes the practical aspects of techniques for collision detection, obstacle avoidance, path planning and manipulation planning. The broad approach spans both model- and sensor-based motion planning, collision detection and geometric complexity, and future directions. Features include: - Review of state-of-the-art techniques and coverage of the main issues to be considered in the development of motion planners for use in real applications - Focus on gross motion planning for articulated arms enabling robots to perform non-contact tasks with relatively high tolerances plus brief consideration of mobile robots - The use of efficient algorithms to tackle incremental changes in the environment - Illlustration of robot motion planning applications in virtual prototyping and the shipbuilding industry - Demonstration of efficient path planners combining both local and global planning approaches in conjunction with efficient techniques for collision detection and distance computations - International contributions from academia and industry Combining theory and practice, this timely book will appeal to academic researchers and practising engineers in the fields of robotic systems, mechatronics and computer science.

Robotics Products Database - 1990

Robot 2015: Second Iberian Robotics Conference - Luís Paulo Reis 2015-11-27
This book contains a selection of papers accepted for presentation and discussion at ROBOT 2015: Second Iberian Robotics Conference, held in Lisbon, Portugal, November 19th-21th, 2015. ROBOT 2015 is part of a series of conferences that are a joint organization of SPR – “Sociedade Portuguesa de Robótica/ Portuguese Society for Robotics”, SEIDROB – Sociedad Española para la Investigación y Desarrollo de la Robótica/ Spanish Society for Research and Development in Robotics and CEA-GTRob – Grupo Temático de Robótica/ Robotics Thematic Group. The conference organization had also the collaboration of several universities and research institutes, including: University of Minho, University of Porto, University of Lisbon, Polytechnic Institute of Porto, University of Aveiro, University of Zaragoza, University of Malaga, LIACC, INESC-TEC and LARSyS. Robot 2015 was focussed on the Robotics scientific and technological activities in the Iberian Peninsula, although open to research and delegates from other countries. The conference featured 19 special sessions, plus a main/general robotics track. The special sessions were about: Agricultural Robotics and Field Automation; Autonomous Driving and Driver Assistance Systems; Communication Aware Robotics; Environmental Robotics; Social Robotics: Intelligent and Adaptable AAL Systems; Future Industrial Robotics Systems; Legged Locomotion Robots; Rehabilitation and Assistive Robotics; Robotic Applications in Art and Architecture; Surgical Robotics; Urban Robotics; Visual Perception for Autonomous Robots; Machine Learning in Robotics; Simulation and Competitions in Robotics; Educational Robotics; Visual Maps in Robotics; Control and Planning in Aerial Robotics, the XVI edition of the Workshop on Physical Agents and a Special Session on Technological Transfer and Innovation.

New Perspectives in Information Systems and Technologies, Volume 2 - Álvaro Rocha 2014-03-19
This book contains a selection of articles from The 2014 World Conference on Information Systems and Technologies (WorldCIST'14), held

between the 15th and 18th of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; Human-Computer Interaction; Health Informatics and Information Technologies in Education.

Sheet Metal Industries - 1996

Thomas Register of American Manufacturers - 2002

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Progress in Artificial Intelligence - Luis Miguel Correia 2013-09-04

This book constitutes the refereed proceedings of the 16th Portuguese Conference on Artificial Intelligence, EPIA 2013, held in Angra do Heroísmo, Azores, Portugal, in September 2013. The 45 revised full papers presented were carefully reviewed and selected from a total of 157 submissions. The papers are organized in the following topical sections: ambient intelligence and affective environments; artificial intelligence in transportation systems; artificial life and evolutionary algorithms; computational methods in bioinformatics and systems biology; general artificial intelligence; intelligent robotics; knowledge discovery and business intelligence; multi-agent systems: theory and applications; social simulation and modeling; and text mining and applications.

RoboCup 2003: Robot Soccer World Cup VII - Daniel Polani 2004-09-02

This book constitutes the seventh official archival publication devoted to RoboCup. It documents the achievements presented at the 7th Robot World Cup Soccer and Rescue Competition and Conferences held in Padua, Italy, in July 2003. The 39 revised full papers and 35 revised poster papers presented together with an overview and roadmap for the RoboCup initiative and 3 invited papers were carefully reviewed and selected from 125 symposium paper submissions. This book is mandatory reading for the rapidly growing RoboCup community as well as a valuable source of reference and inspiration for R&D professionals interested in robotics, distributed artificial intelligence, and multi-agent systems.

RoboCup 2014: Robot World Cup XVIII - Reinaldo A. C. Bianchi 2015-05-11

This book includes the thoroughly refereed proceedings of the 18th Annual RoboCup International Symposium, held in Joao Pessoa, Brazil, in July 2014.The 36 revised papers were carefully reviewed and selected from 66 submissions and include 11 champion-team papers, three special-track papers on open-source hardware and software, nine papers on the advancement of the RoboCup leagues track, and three best papers. The contributions present current research and educational activities in the field of robotics and artificial intelligence with a special focus on the interaction between robots and humans.

RoboCup 2009: Robot Soccer World Cup XIII - Jacky Baltes 2010-02-18

This book includes the thoroughly refereed post-conference proceedings of the 13th RoboCup International Symposium, held in Graz, Austria, in June/July, 2009. They cover scientific contributions to a variety of research areas related to all RoboCup divisions.

Agents and Artificial Intelligence - Joaquim Filipe 2013-04-10

This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Conference on Agents and Artificial Intelligence, ICAART 2012, held in Vilamoura, Portugal, in February 2012. The 28 revised full papers presented together with one invited paper were carefully reviewed and selected from 292 submissions. The papers are organized in two topical sections on artificial intelligence and on agents.

RoboCup 2000: Robot Soccer World Cup IV - Peter Stone 2003-06-29

This book is the fourth offical archival publication devoted to RoboCup and documents

the achievements presented at the Fourth Robot World Cup Soccer Games and Conferences, RoboCup 2000, held in Melbourne, Australia, in August/September 2000. The book presents the following parts: introductory overview and survey, championship papers by the winners of the competitions, finalist papers for the RoboCup challenge awards, papers and posters presented at the workshop, team description of a large number of participating teams. This book is mandatory reading for the rapidly growing RoboCup community as well as a valuable source of reference and inspiration for R & D professionals interested in multi-agent systems, distributed artificial intelligence, and intelligent robotics.

*Intelligent Production Machines and Systems - 2nd I*PROMS Virtual International Conference 3-14 July 2006* - Duc T. Pham 2011-07-28

I*PROMS 2005 is an online web-based conference. It provides a platform for presenting, discussing, and disseminating research results contributed by scientists and industrial practitioners active in the area of intelligent systems and soft computing techniques (such as fuzzy logic, neural networks, evolutionary algorithms, and knowledge-based systems) and their application in different areas of manufacturing. Comprised of 100 peer-reviewed articles, this important resource provides tools to help enterprises achieve goals critical to the future of manufacturing. I*PROMS is an European Union-funded network that involves 30 partner organizations and more than 130 researchers from universities, research organizations, and corporations. * State-of-the-art research results * Leading European researchers and industrial practitioners * Comprehensive collection of indexed and peer-reviewed articles in book format supported by a user-friendly full-text CD-ROM with search functionality

Balancing Reactivity and Social Deliberation in Multi-Agent Systems - Markus Hannebauer 2003-05-15

This book presents a subselection of papers presented at the ECAI 2000 Workshop on Balancing Reactivity and Social Deliberation in Multi-Agent Systems together with additional papers from well-known researchers in the field. The 13 revised full papers were carefully reviewed and selected for inclusion in the present book. Besides two introductory survey papers, the book offers topical sections on architectures and frameworks, enhanced reactivity, and controlled social deliberation.

Industrial Engineering - 1985

RoboCup 2001: Robot Soccer World Cup V - Andreas Birk 2003-08-02

This book is the fifth official archival publication devoted to RoboCup. It documents the achievements presented at the 5th Robot World Cup Soccer Games and Conferences held in Seattle, Washington, USA, in August 2001.The book contains the following parts: introduction, champion teams, challenge award finalists, technical papers, poster presentations, and team descriptions (arranged according to various leagues).This book is mandatory reading for the rapidly growing RoboCup community as well as a valuable source of references and inspiration for R&D professionals interested in multi-agent systems, distributed artificial intelligence, and intelligent robotics.

Designing Smart and Resilient Cities for a Post-Pandemic World - Anthony Larsson 2022-08-16

Are pandemics the end of cities? Or do they present an opportunity for us to reshape cities in ways making us even more innovative, successful, and sustainable? Pandemics such as COVID-19 (and comparable disruptions) have caused intense debates over the future of cities. Through a series of investigative studies, Designing Smart and Resilient Cities for a Post-Pandemic World: Metropandemic Revolution seeks to critically discuss and compare different cases, innovations and approaches as to how cities can utilise nascent and future digital technology and/or new strategies in order to build stronger resilience to better tackle comparable large-scale pandemics and/or disruptions in the future. The authors identify ten separate societal areas where future digital technology can impact resilience. These are discussed in individual chapters. Each chapter concludes with a set of proposed "action points" based on the conclusions of each respective study. These serve as solid policy recommendations of what courses of action to take to help increase the resilience in smart

cities for each designated area. Securing resilience and cohesion between each area will bring about the metropandemic revolution. The book features a foreword by Nobel laureate Peter C. Doherty and an afterword by Professor of Urban Technologies, Carlo Ratti. It provides fresh and unique insights on smart cities and futures studies in a pandemic context, offers profound reflections on contemporary societal functions and the needs to build resilience and combines lessons learned from historical pandemics with possibilities offered by future technology.

Proceedings - 1994

Robotics Today - 1985

New Perspectives in Information Systems and Technologies, Volume 1 - Álvaro Rocha 2014-03-18

This book contains a selection of articles from The 2014 World Conference on Information Systems and Technologies (WorldCIST'14), held between the 15th and 18th of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; Human-Computer Interaction; Health Informatics and Information Technologies in Education.

Robot 2019: Fourth Iberian Robotics Conference - Manuel F. Silva 2019-11-19

This book gathers a selection of papers presented at ROBOT 2019 – the Fourth Iberian Robotics Conference, held in Porto, Portugal, on November 20th–22nd, 2019. ROBOT 2019 is part of a series of conferences jointly organized by the SPR – Sociedade Portuguesa de Robótica (Portuguese Society for Robotics) and SEIDROB – Sociedad Española para la Investigación y Desarrollo en Robótica (Spanish Society for Research and Development in Robotics). ROBOT 2019 built upon several previous successful events, including three biannual workshops and the three previous installments of the Iberian Robotics Conference, and chiefly focused on presenting the latest findings and applications in robotics from the Iberian Peninsula, although the event was also open to research and researchers from other countries. The event featured five plenary talks on state-of-the-art topics and 16 special sessions, plus a main/general robotics track. In total, after a stringent review process, 112 high-quality papers written by authors from 24 countries were selected for publication.

Computational Modelling of Objects Represented in Images. Fundamentals, Methods and Applications - João Manuel R.S. Tavares 2018-05-08

This book contains keynote lectures and full papers presented at the International Symposium on Computational Modelling of Objects Represented in Images (CompIMAGE), held in Coimbra, Portugal, on 20-21 October 2006. International contributions from nineteen countries provide a comprehensive coverage of the current state-of-the-art in the fields of: - Image Processing and Analysis; - Image Segmentation; - Data Interpolation; - Registration, Acquisition and Compression; - 3D Reconstruction; - Objects Tracking; - Motion and Deformation Analysis; - Objects Simulation; - Medical Imaging; - Computational Bioimaging and Visualization. Related techniques also covered in this book include the finite element method, modal analyses, stochastic methods, principal and independent components analyses and distribution models. Computational Modelling of Objects Represented in Images will be useful to academics, researchers and professionals in Computational Vision (image processing and analysis), Computer Sciences, and Computational Mechanics.

Occupational and Environmental Safety and Health - Pedro M. Arezes 2019-02-27

This book explores a number of important issues in the area of occupational safety and hygiene. Presenting both research and best practices for the evaluation of occupational risk, safety and health in various types of industry, it particularly focuses on occupational safety in automated

environments, innovative management systems and occupational safety in a global context. The different chapters examine the perspectives of all those involved, such as managers, workers and OSH professionals. Based on selected contributions presented at the 15th International Symposium on Occupational Safety and Hygiene (SHO 2019), held on 15–16 April, 2019, in Guimarães, Portugal, the book serves as a timely reference guide and source of inspiration to OSH researchers, practitioners and organizations operating in a global context.

Computational Vision and Medical Image Processing - João Manuel R.S. Tavares 2009-10-01

Computational Vision and Medical Image Processing, VIPIMAGE 2009 contains the full papers presented at VIPIMAGE 2009 - Second ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing, held in Porto, Portugal, on 14-16 October 2009. International contributions from twenty countries provide a comprehensive coverage of the current state-of-the-art in the fields of: Image Processing and Analysis; Tracking and Analyze Objects in Images; Segmentation of Objects in Images; 3D Vision; Signal Processing; Data Interpolation, Registration, Acquisition and Compression; Objects Simulation; Virtual Reality; Software Development for Image Processing and Analysis; Computer Aided Diagnosis, Surgery, Therapy and Treatment; Computational Bioimaging and Visualization; Telemedicine Systems and their Applications. Related techniques covered in Computational Vision and Medical Image Processing, VIPIMAGE 2009 include the level set method, finite element method, modal analyses, stochastic methods, principal and independent components analyses and distribution models. The volume will be useful to academics, researchers and professionals in Computational Vision (image processing and analysis), Computer Sciences, Computational Mechanics and Medicine.

International Encyclopedia of Robotics - Richard C. Dorf 1988