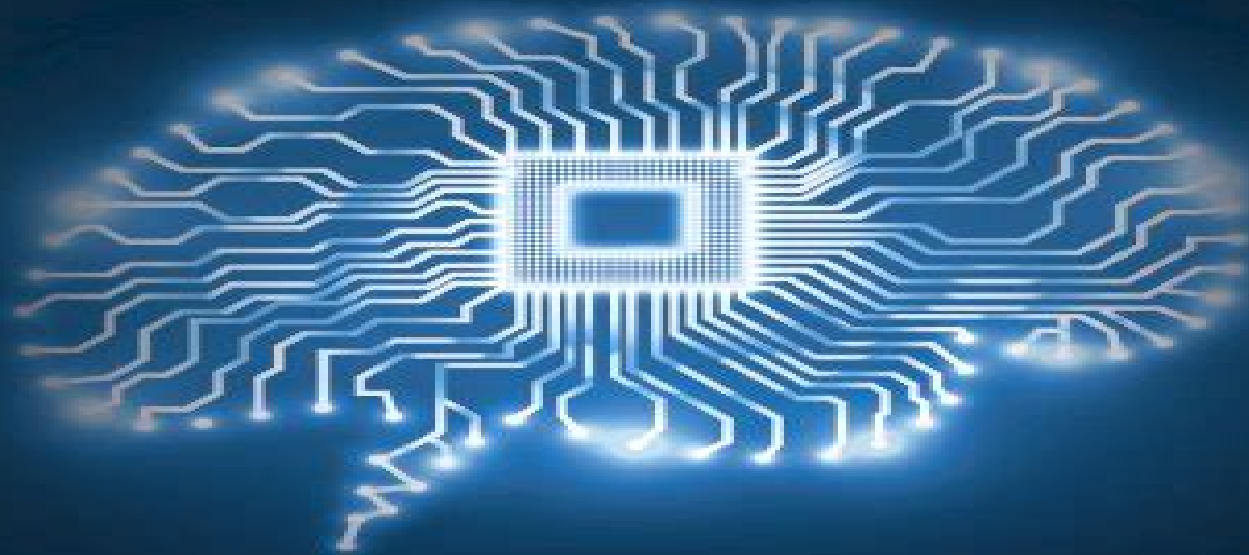


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Shihong Qin
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Intelligent Systems in Production Engineering and Maintenance IV Anna Burduk, M. Anthony Xavier, Jose Machado, Suthep Butdee, Kamil Krot, Phatchani Srikhumsuk, Dagmara Lapczynska, 2025-08-24 This book reports on intelligent systems and methods applied to engineering production and maintenance Being the first of two volumes it specifically focuses on advanced tools for analysing designing and optimizing manufacturing processes increasing their automation safety and sustainability It also covers applications of intelligent methods for improving transport systems discussing topics in mechanical engineering education alike Based the 5th International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2025 held on June 25 27 2025 in Wroclaw Poland this book offers a timely snapshot of intelligent systems applications and advances in industry 4.0 in engineering design and manufacturing **Handbook of Research on Advanced Mechatronic Systems and Intelligent Robotics** Habib, Maki K., 2019-07-26 Advanced research in the field of mechatronics and robotics represents a unifying interdisciplinary and intelligent engineering science paradigm It is a holistic concurrent and interdisciplinary engineering science that identifies novel possibilities of synergizing and fusing different disciplines The Handbook of Research on Advanced Mechatronic Systems and Intelligent Robotics is a collection of innovative research on the methods and applications of knowledge in both theoretical and practical skills of intelligent robotics and mechatronics While highlighting topics including green technology machine learning and virtual manufacturing this book is ideally designed for researchers students engineers and computer practitioners seeking current research on developing innovative ideas for intelligent robotics and autonomous and smart interdisciplinary mechatronic products

Modelling in Mechanical Engineering and Mechatronics Nikolay Avgoustinov, 2007-07-26 Modelling is an activity that is found in every domain of research and science and takes place even when we are not aware of it Information Technology Aspects of Product and Process Modelling presents a model centred approach focusing on distributed development and use of autonomous intelligent software models particularly the efficiency of the models and their interaction and integration into distributed autonomous intelligent systems It considers the viewpoints of many different experts the modeller engineer system architect software developer and users of the models and as such will be bought by all these people *Web-Based Control and Robotics Education* Spyros G. Tzafestas, 2009-07-31 For the things we have to learn before we can do them we learn by doing them Aristotle Teaching should be such that what is offered is perceived as a valuable gift and not as a hard duty Albert Einstein The second most important job in the world second only to being a good parent is being a good teacher S. G. Ellis The fast technological changes and the resulting shifts of market conditions require the development and use of educational methodologies and opportunities with moderate economic demands Currently there is an increasing number of educational institutes that respond to this challenge through the creation and adoption of distance education programs in which the teachers and students are separated by physical distance It has been verified in many cases

that with the proper methods and tools teaching and learning at a distance can be as effective as traditional face to face instruction Today distance education is primarily performed through the Internet which is the biggest and most powerful computer network of the World and the World Wide Web WWW which is an effective front end to the Internet and allows the Internet users to uniformly access a large repertory of resources text data images sound video etc available on the Internet

Encyclopedia of Digital Agricultural Technologies Qin Zhang,2023-10-11 Digital agriculture is an emerging concept of modern farming that refers to managing farms using modern Engineering Information and Communication Technologies EICT aiming at increasing the overall efficiency of agricultural production improving the quantity and quality of products and optimizing the human labor required and natural resource consumption in operations This encyclopedia is designed to collect the summaries of knowledge on as many as subjects or aspects relevant to ECIT for digital agriculture present such knowledge in entries and arrange them alphabetically by articles titles Springer Major Reference Works platform offers Live Update capability Our reference work takes full advantage of this feature which allows for continuous improvement or revision of published content electronically The Editorial Board Dr Irwin R Donis Gonzalez University of California Davis Dept Biological and Agricultural Engineering Davis USA Section Postharvest Technologies Prof Paul Heinemann Pennsylvania State University Department Head of Agricultural and Biological Engineering PA USA Section Technologies for Crop Production Prof Manoj Karkee Washington State University Center for Precision and Automated Agricultural Systems Washington USA Section Robotics and Automation Technologies Prof Minzan Li China Agricultural University Beijing China Section Precision Agricultural Technologies Prof Dikai Liu University of Technology Sydney UTS Faculty of Engineering Information Technologies Broadway NSW Australia Section AI Information and Communication Technologies Prof Tomas Norton University of Leuven Dept of Biosystems Heverlee Leuven Belgium Section Technologies for Animal and Aquatic Production Dr Manuela Zude Sasse Leibniz Institute for Agricultural Engineering and Bioeconomy ATB Precision Horticulture Potsdam Germany Section Engineering and Mechanization Technologies

Actuators and Their Applications Inamuddin,Rajender Boddula,Abdullah M. Asiri,2020-04-28 As demand has increased for new types of equipment that are more suited to the ever evolving world of industry demand for both new and traditional types of actuators has soared From automotive and aeronautical to biomedical and robotics engineers are constantly developing actuating devices that are adapted to their particular needs in their particular field and actuators are used in almost every field of engineering that there is This volume not only lays out the fundamentals of actuators such as how they operate the different kinds and their various applications but it also informs the engineer or student about the new actuators that are being developed and the state of the art of actuators Edited and written by highly experienced and well respected engineers with a deep understanding of their subject there is no other volume on actuators that is more current or comprehensive Whether as a guide for the latest innovations in actuators a refresher reference work for the veteran engineer or an introductory text for

the engineering student this is a must have for any engineer s or university s library Covering the theory and the practical applications this breakthrough volume is a one stop shop for any engineer or student interested in actuators **Trends, Paradigms, and Advances in Mechatronics Engineering** Mellal, Mohamed Arezki,2022-11-18 Most modern systems involve various engineering disciplines Mechatronic systems are designed to be dependable and efficient however mechatronics engineering faces multiple challenges at the design and exploitation stages It is essential for engineers to be aware of these challenges and remain up to date with the emerging research in the mechatronics engineering field Trends Paradigms and Advances in Mechatronics Engineering presents the latest advances and applications of mechatronics It highlights the recent challenges in the field and facilitates understanding of the subject Covering topics such as the construction industry design optimization and low cost fabrication this premier reference source is a crucial resource for engineers computer scientists construction managers students and educators of higher education librarians researchers and academicians Applied Modern Control Le Anh Tuan,2019-02-13 This book describes recent studies on modern control systems using various control techniques The control systems cover large complex systems such as train operation systems to micro systems in nanotechnology Various control trends and techniques are discussed from practically modern approaches such as Internet of Things artificial neural networks machine learning to theoretical approaches such as zero placement bang bang optimal control predictive control and fuzzy approach Intelligent Robots and Cobots V. Ramasamy,S. Balamurugan,Sheng-Lung Peng,2025-01-22 The book provides a comprehensive study of how new technological advances utilize robots and Cobots collaborative robots that work safely alongside humans to increase manufacturing efficiency Industry 5 0 focuses on using collaborative robots or cobots enabling users to design with greater freedom This book structured into 18 chapters and three sections Fundamentals Applications and Challenges reflect the current and emerging market trends that shape industrial growth Each chapter explores how businesses incorporating hardware and software like AI cognitive computing blockchain IIoT and more are capitalizing on these innovations to maintain a competitive edge The research and development in the areas of technology has increased the cost effectiveness and acceptance of these IoT enabled devices in many different industries Various sectors including manufacturing healthcare transportation and agriculture sectors have begun incorporating robots and cobots into their operations They are aiming to increase their productivity reduce the downtime of their equipment and optimize resource utilization The individual chapters examine the following subjects Investigation on Deployment of Microservices for Swarm Intelligence of Collaborative Robots Cobot Aided System for Hydroponically Grown Plants Low No Code Software Development of Cobots Using Advanced Graphical User Interface Role of Cobots Over Industrial Robots in Industry 5 0 Activities Cobot Collaboration in the Healthcare Industry Robotic Arm for Industry Automation Artificial Intelligence Driven Cobots for Innovative Industry 5 0 Workforce Comprehensive Analysis on Design Working and Manufacturing of Soft Robots Workforce for Industry 5 0 The Work of

Future and the Future of Work Security Issues and Trends of Industrial Robots and Cobots Aviation Bots for Decongesting Airports Self Contained Study and Evolution of Cobots in Intelligent Transportation Systems Smart Architecture for Data Analytics in Collaborative Robots Contribution of Blockchain Technology for the Cobot s Cybersecurity Issues Security Issues and Trends of Industrial Robots and Cobots Cloud Based Cobots for Industry 5 0 A Human Centric Solution Future Workforce for Industry 5 0 Audience The book s primary audience is researchers and post graduate students in robotics and cobots industrial engineers production and manufacturing engineers working on artificial intelligence and logistics

Automotive Mechatronics: Operational and Practical Issues B. T. Fijalkowski, 2011-03-14 This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems As the complexity of automotive vehicles increases so does the dearth of high competence multi disciplined automotive scientists and engineers This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment Divided into two volumes and five parts Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students experimental hands on abilities stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers The main subject that are treated are VOLUME I RBW or XBW unibody or chassis motion mechatronic control hypersystems DBW AWD propulsion mechatronic control systems BBW AWB dispulsion mechatronic control systems VOLUME II SBW AWS conversion mechatronic control systems ABW AWA suspension mechatronic control systems This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics powertrains brakes steering and shock absorbers dampers Basic knowledge of college mathematics college physics and knowledge of the functionality of automotive vehicle basic propulsion dispulsion conversion and suspension systems is required

Novel Applications of Functionally Graded Materials Neeraj Kumar Bhoi, Harpreet Singh, Himansu Sekhar Nanda, 2025-09-12 Novel Applications of Functionally Graded Materials offers a thorough understanding of the unique characteristics characterization techniques and inventive applications of functionally graded materials FGMs It covers a wide range of sophisticated functional materials including metals composites polymers and ceramics exploring their unique characteristics and using cutting edge characterization methods Detailed examinations of applications in the fields of energy electronics biology and aerospace provide important new insights into the revolutionary potential of these materials across a range of sectors Features Cover effects of FGMs on fields including aerospace automobile electronics energy and medicine Contains extensive discussions on the leading topics in the study of advanced functional and composite materials backed by examples Discusses consumer expectations and environmental sustainability

issues related to the production of FGMs Encompasses wide range of topics such as biomaterials smart structures rapid prototyping and nanofinishing technologies among many others Explores how to create new materials with optimized properties and how to use those features to fulfill specific industrial requirements This book is aimed at graduate students and researchers in materials science and manufacturing *Safety and Security Engineering VII* Lombardi, M.,2018-01-29 Papers presented at the 7th in a series of interdisciplinary conferences on safety and security engineering are contained in this book The papers include the work of engineers scientists field researchers managers and other specialists involved in one or more of the theoretical and practical aspects of safety and security Safety and Security Engineering due to its special nature is an interdisciplinary area of research and application that brings together in a systematic way many disciplines of engineering from the traditional to the most technologically advanced This volume covers topics such as crisis management security engineering natural and man made disasters and emergencies risk management and control protection and mitigation issues Specific themes include Risk analysis assessment and management System safety engineering Incident monitoring Information and communication security Disaster management Emergency response Critical infrastructure protection Counter terrorism issues Human factors Transportation safety and security Modelling and experiments Security surveillance systems Cyber security E security Loss prevention BIM in Safety and Security *Information Systems and Neuroscience* Fred D. Davis,René Riedl,Jan vom Brocke,Pierre-Majorique Léger,Adriane B. Randolph,2018-11-03 This book presents the proceedings of the NeuroIS Retreat 2018 June 19 21 Vienna Austria reporting on topics at the intersection of Information Systems IS research neurophysiology and the brain sciences Readers will discover the latest findings from top scholars in the field of NeuroIS which offer detailed insights on the neurobiology underlying IS behavior essential methods and tools and their applications for IS as well as the application of neuroscience and neurophysiological theories to advance IS theory Inverse Dynamics Problems Hamed Kalhori,2021-06-15 The inverse dynamics problem was developed in order to provide researchers with the state of the art in inverse problems for dynamic and vibrational systems Contrasted with a forward problem which solves for the system output in a straightforward manner an inverse problem searches for the system input through a procedure contaminated with errors and uncertainties An inverse problem with a focus on structural dynamics determines the changes made to the system and estimates the inputs including forces and moments to the system utilizing measurements of structural vibration responses only With its complex mathematical structure and need for more reliable input estimations the inverse problem is still a fundamental subject of research among mathematicians and engineering scientists This book contains 11 articles that touch upon various aspects of inverse dynamic problems **Advanced Mechatronics and MEMS Devices** Dan Zhang,2012-09-14 Advanced Mechatronics and MEMS Devicesdescribes state of the art MEMS devices and introduces the latest technology in electrical and mechanical microsystems The evolution of design in microfabrication as well as emerging issues in nanomaterials micromachining

micromanufacturing and microassembly are all discussed at length in this volume Advanced Mechatronics also provides a reader with knowledge of MEMS sensors array MEMS multidimensional accelerometer artificial skin with imbedded tactile components as well as other topics in MEMS sensors and transducers The book also presents a number of topics in advanced robotics and an abundance of applications of MEMS in robotics like reconfigurable modular snake robots magnetic MEMS robots for drug delivery and flying robots with adjustable wings to name a few

National Conference on Recent Trends in Engineering Science and Technology(NCRTEST-25)) Dr. Aprameyan S,Dr. Chowda Reddy,2025-08-12

Applying Internet of Things and Blockchain in Smart Cities: Industry and Healthcare Perspectives Abhishek,

Kumar,Chakraborty, Chinmay,2024-08-26 The convergence of Internet of Things IoT technology and blockchain offers transformative potential for the development of smart cities enhancing industry operations and healthcare systems IoT devices generate vast amounts of data to optimize urban infrastructure and improve service delivery while blockchain provides a secure transparent framework for managing data Across industries this collaboration leads to smarter manufacturing processes and efficient logistics In healthcare it enhances patient care through secure data sharing and streamlined administrative processes A concerted effort to address these technical regulatory and ethical challenges is crucial for effective and responsible integration of IoT and blockchain in smart cities for improved urban living and healthcare services

Applying Internet of Things and Blockchain in Smart Cities Industry and Healthcare Perspectives explores the application of IoT and blockchain technology for smart city integration in healthcare industries and business processes It offers solutions for this effective convergence through aspects like cloud and digital technology or security and privacy practices This book covers topics such as machine learning energy management and wearable devices and is a useful resource for business owners computer engineers agriculturalists security professionals healthcare workers academicians researchers and scientists

Actuation-Aware Simplified Dynamic Models for Robotic Legged Locomotion Romeo Orsolino,2019-02-14 In the recent years we witnessed an ever increasing number of successful hardware implementations of motion planners for legged robots If one common property is to be identified among these real world applications that is the ability of performing online re planning Online planning is forgiving in the sense that it allows to relentlessly compensate for external disturbances of whatever form they might be ranging from unmodeled dynamics to external pushes or unexpected obstacles and at the same time follow user commands Initially replanning was restricted only to heuristic based planners that exploit the low computational effort of simplified dynamic models Such models deliberately only capture the main dynamics of the system thus leaving to the controllers the issue of anchoring the desired trajectory to the whole body model of the robot In recent years however a number of novel Model Predictive Control MPC approaches have been presented that attempt to increase the accuracy of the obtained solutions by employing more complex dynamic formulations this without trading off the computational efficiency of simplified models In this dissertation as an example of successful hardware

implementation of heuristics and simplified model based locomotion I first describe the control framework that I developed for the generation of an omni directional bounding gait for the HyQ quadruped robot By analyzing the stable limit cycles for the sagittal dynamics and the Center of Pressure CoP for the lateral stabilization the described locomotion framework is able to achieve a stable bounding gait while adapting the footsteps to terrains of mild roughness and to sudden changes of the user desired linear and angular velocities The next topic reported and second contribution of this dissertation is my effort to formulate more descriptive simplified dynamic models without compromising their computational efficiency in order to extend the navigation capabilities of legged robots to complex geometry environments With this in mind I investigated the possibility of incorporating feasibility constraints in these template models and in particular I focused on the joint torque limits which are usually neglected at the planning stage Along the same direction the third contribution discussed in this thesis is the formulation of the so called actuation wrench polytope AWP defined as the set of feasible wrenches that an articulated robot can perform given its actuation limits Intersected with the contact wrench cone CWC this yields a new 6D polytope that we name feasible wrench polytope FWP defined as the set of all wrenches that a legged robot can realize given its actuation capabilities and the friction constraints Results are reported where thanks to efficient computational geometry algorithms and to appropriate approximations the FWP is employed for a one step receding horizon optimization of center of mass trajectory and phase durations given a predefined step sequence on rough terrains In order to augment the robot's reachable workspace I then decided to trade off the generality of the FWP formulation for a suboptimal scenario in which a quasi static motion is assumed This led to the definition of a new concept that I refer to under the name of feasible region This can be seen as a different variant of 2D linear subspaces orthogonal to gravity where the robot is guaranteed to place its own center of mass CoM while being able to carry its own body weight given its actuation capabilities The feasible region provides an intuitive tool for the visualization in 2D of the actuation capabilities of legged robots The low dimensionality of the feasible region also enables the concurrent online optimization of actuation consistent CoM trajectories and target foothold locations on rough terrains which can hardly be achieved with other state of the art approaches

Mechatronics in Action David Bradley, David W. Russell, 2010-04-15 *Mechatronics in Action*'s case study approach provides the most effective means of illustrating how mechatronics can make products and systems more flexible more responsive and possess higher levels of functionality than would otherwise be possible The series of case studies serves to illustrate how a mechatronic approach has been used to achieve enhanced performance through the transfer of functionality from the mechanical domain to electronics and software *Mechatronics in Action* not only provides readers with access to a range of case studies and the experts view of these but also offers case studies in course design and development to support tutors in making the best and most effective use of the technical coverage provided It provides in an easily accessible form a means of increasing the understanding of the mechatronic concept while giving both students and tutors substantial technical insight into how this

concept has been developed and used *Robot Advanced Intellectual Control developed through Flexible Intelligent Portable Platform* Luige Vladareanu, Victor Vladareanu, Hongnian Yu, Hongbo Wang, Florentin Smarandache, This paper offers an intelligent flexible portable robot platform VIPRo involving the development of intelligent control interfaces through the application of advanced control techniques which are modified to the robot environment These include Robot Haptic Control RHC Robot Extenics Control eHFPC Robot Neutrosophic Control RNC human adaptive mechatronics applied by high speed processing IT C techniques and real time communications for processing large volumes of data An original virtual projection methodology is used to SMOOTH firefighting robots by representing mobile intelligent robots in a threedimensional virtual environment using VIP F2Ro with a robotic strong simulator an open architecture system and flexible networks over the classic robot control system

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