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eWork and eBusiness in Architecture, Engineering and Construction Jan Karlshoj,Raimar Scherer,2018-09-03 eWork and eBusiness in Architecture Engineering and Construction 2018 collects the papers presented at the 12th European Conference on Product and Process Modelling ECPPM 2018 Copenhagen 12 14 September 2018 The contributions cover complementary thematic areas that hold great promise towards the advancement of research and technological development in the modelling of complex engineering systems encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC FM including Information and Knowledge Management Construction Management Description Logics and Ontology Application in AEC Risk Management 5D nD Modelling Simulation and Augmented Reality Infrastructure Condition Assessment Standardization of Data Structures Regulatory and Legal Aspects Multi Model and distributed Data Management System Identification Industrilized Production Smart Products and Services Interoperability Smart Cities Sustainable Buildings and Urban Environments Collaboration and Teamwork BIM Implementation and Deployment Building Performance Simulation Intelligent Catalogues and Services eWork and eBusiness in Architecture Engineering and Construction 2018 represents a rich and comprehensive resource for academics and researchers working in the interdisciplinary areas of information technology applications in architecture engineering and construction In the last two decades the biennial ECPPM European Conference on Product and Process Modelling conference series as the oldest BIM conference has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and Facilities Management domains *Advances in Informatics and Computing in Civil and Construction Engineering* Ivan Mutis,Timo Hartmann,2018-10-08 This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference IT in Design Construction and Management held in Chicago IL USA in October 2018 The theme of the conference focused on fostering encouraging and promoting research and development in the application of integrated information technology IT throughout the life cycle of the design construction and occupancy of buildings and related facilities The CIB International Council for Research and Innovation in Building Construction was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector with an emphasis on those institutes engaged in technical fields of research The conference brought together more than 200 scholars from 40 countries who presented the innovative concepts and methods featured in this collection of papers **Metrics of Sensory Motor Coordination and Integration in Robots and Animals** Fabio Bonsignorio,Elena Messina,Angel P. del Pobil,John Hallam,2019-03-23 This book focuses on a critical issue in the study of physical agents whether natural or artificial the quantitative modelling of sensory motor coordination Adopting a novel approach it defines a common scientific framework for

both the intelligent systems designed by engineers and those that have evolved naturally As such it contributes to the widespread adoption of a rigorous quantitative and refutable approach in the scientific study of embodied intelligence and cognition More than 70 years after Norbert Wiener s famous book Cybernetics or Control and Communication in the Animal and the Machine 1948 robotics AI and life sciences seem to be converging towards a common model of what we can call the science of embodied intelligent cognitive agents This book is interesting for an interdisciplinary community of researchers technologists and entrepreneurs working at the frontiers of robotics and AI neuroscience and general life and brain sciences

    Robotic Technologies in Biomedical and Healthcare Engineering Deepak Gupta,Moolchand Sharma,Vikas Chaudhary,Ashish Khanna,2021-06-29 New prospects for biomedical and healthcare engineering are being created by the rapid development of Robotic and Artificial Intelligence techniques Innovative technologies such as Artificial Intelligence Deep Learning Robotics and IoT are currently under huge influence in today s modern world For instance a micro nano robot allows us to study the fundamental problems at a cellular scale owing to its precise positioning and manipulation ability the medical robot paves a new way for the low invasive and high efficient clinical operation and rehabilitation robotics is able to improve the rehabilitative efficacy of patients This book aims at exhibiting the latest research achievements findings and ideas in the field of robotics in biomedical and healthcare engineering primarily focusing on the walking assistive robot telerobotic surgery upper lower limb rehabilitation and radiosurgery As a result a wide range of robots are being developed to serve a variety of roles within the medical environment Robots specializing in human treatment include surgical robots and rehabilitation robots The field of assistive and therapeutic robotic devices is also expanding rapidly These include robots that help patients rehabilitate from severe conditions like strokes empathic robots that assist in the care of older or physically mentally challenged individuals and industrial robots that take on a variety of routine tasks such as sterilizing rooms and delivering medical supplies and equipment including medications The objectives of the book are in terms of advancing the state of the art of robotic techniques and addressing the challenging problems in biomedical and healthcare engineering This book Lays a good foundation for the core concepts and principles of robotics in biomedical and healthcare engineering walking the reader through the fundamental ideas with expert ease Progresses on the topics in a step by step manner and reinforces theory with a full fledged pedagogy designed to enhance students understanding and offer them a practical insight into the applications of it Features chapters that introduce and cover novel ideas in healthcare engineering like Applications of Robots in Surgery Microrobots and Nanorobots in Healthcare Practices Intelligent Walker for Posture Monitoring AI Powered Robots in Biomedical and Hybrid Intelligent Systems for Medical Diagnosis and so on Deepak Gupta is an Assistant Professor at the Maharaja Agrasen Institute of Technology GGSIPU Delhi India Moolchand Sharma is an Assistant Professor at the Maharaja Agrasen Institute of Technology GGSIPU Delhi India Vikas Chaudhary is a Professor at the JIMS Engineering Management Technical Campus GGSIPU Greater Noida India Ashish Khanna currently works at the

Maharaja Agrasen Institute of Technology GGSIPU Delhi India   **Guide to Geometric Algebra in Practice** Leo Dorst,Joan Lasenby,2011-08-28 This highly practical Guide to Geometric Algebra in Practice reviews algebraic techniques for geometrical problems in computer science and engineering and the relationships between them The topics covered range from powerful new theoretical developments to successful applications and the development of new software and hardware tools Topics and features provides hands on review exercises throughout the book together with helpful chapter summaries presents a concise introductory tutorial to conformal geometric algebra CGA in the appendices examines the application of CGA for the description of rigid body motion interpolation and tracking and image processing reviews the employment of GA in theorem proving and combinatorics discusses the geometric algebra of lines lower dimensional algebras and other alternatives to 5 dimensional CGA proposes applications of coordinate free methods of GA for differential geometry

Human Systems Engineering and Design III Waldemar Karwowski,Tareq Ahram,Darko Etinger,Nikola Tanković,Redha Taiar,2020-08-29 This book focuses on novel design and systems engineering approaches including theories and best practices for promoting a better integration of people and engineering systems It covers a range of innovative topics related to development of human centered systems interface design and human computer interaction usability and user experience innovative materials in design and manufacturing biomechanics and physical rehabilitation as well as safety engineering and systems complexity The book which gathers selected papers presented at the 3rd International Conference on Human Systems Engineering and Design Future Trends and Applications IHSED 2020 held on September 22 24 2020 at Juraj Dobrila University of Pula in Pula Croatia provides researchers and practitioners with a snapshot of the state of the art and current challenges in the field of human systems engineering and design   Human Modeling for Bio-Inspired Robotics Jun Ueda,Yuichi Kurita,2016-09-02 Human Modelling for Bio inspired Robotics Mechanical Engineering in Assistive Technologies presents the most cutting edge research outcomes in the area of mechanical and control aspects of human functions for macro scale human size applications Intended to provide researchers both in academia and industry with key content on which to base their developments this book is organized and written by senior experts in their fields Human Modeling for Bio Inspired Robotics Mechanical Engineering in Assistive Technologies offers a system level investigation into human mechanisms that inspire the development of assistive technologies and humanoid robotics including topics in modelling of anatomical musculoskeletal neural and cognitive systems as well as motor skills adaptation and integration Each chapter is written by a subject expert and discusses its background research challenges key outcomes application and future trends This book will be especially useful for academic and industry researchers in this exciting field as well as graduate level students to bring them up to speed with the latest technology in mechanical design and control aspects of the area Previous knowledge of the fundamentals of kinematics dynamics control and signal processing is assumed Presents the most recent research outcomes in the area of mechanical and control aspects of human functions for macro scale human size applications

Covers background information and fundamental concepts of human modelling Includes modelling of anatomical musculoskeletal neural and cognitive systems as well as motor skills adaptation integration and safety issues Assumes previous knowledge of the fundamentals of kinematics dynamics control and signal processing **Augmented and Virtual Reality** Lucio Tommaso De Paolis,Antonio Mongelli,2015-08-14 This book constitutes the refereed proceedings of the Second International Conference on Augmented and Virtual Reality AVR 2015 held in Lecce Italy in September 2015 The 32 papers and 8 short papers presented were carefully reviewed and selected from 82 submissions The SALENTO AVR 2015 conference brings together a community of researchers from academia and industry computer scientists engineers and physicians in order to share points of views knowledge experiences and scientific and technical results related to state of the art solutions and technologies on virtual and augmented reality applications for medicine cultural heritage education industrial sectors as well as the demonstration of advanced products and technologies **Robotics Research** Cédric Pradalier,Roland Siegwart,Gerhard Hirzinger,2011-04-21 This volume presents a collection of papers presented at the 14th International Symposium of Robotic Research ISRR ISRR is the biennial meeting of the International Foundation of Robotic Research IFRR and its 14th edition took place in Lucerne Switzerland from August 31st to September 3rd 2009 As for the previous symposia ISRR 2009 followed up on the successful concept of a mixture of invited contributions and open submissions Half of the 48 presentations were therefore invited contributions from outstanding researchers selected by the IFRR officers and half were chosen among the 66 submissions after peer review This selection process resulted in a truly excellent technical program which we believe featured some of the very best of robotic research Out of the 48 presentations the 42 papers which were finally submitted for publication are organized in 8 sections that encompass the major research orientations in robotics Navigation Control Planning Human Robot Interaction Manipulation and Humanoids Learning Mapping Multi Robot Systems and Micro Robotics They represent an excellent snapshot of cutting edge research in robotics and outline future directions Knowledge-Based and Intelligent Information and Engineering Systems, Part I Andreas Koenig,Andreas Dengel,Knut Hinkelmann,Koichi Kise,Robert J. Howlett,Lakhmi C. Jain,2011-09-15 The four volume set LNAI 6881 LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2011 held in Kaiserslautern Germany in September 2011 Part 1 The total of 244 high quality papers presented were carefully reviewed and selected from numerous submissions The 61 papers of Part 1 are organized in topical sections on artificial neural networks connectionists systems and evolutionary computation machine learning and classical AI agent multi agentsystems knowledge based and expert systems intelligent vision image processing and signal processing knowledge management ontologies and data mining Informatics in Control, Automation and Robotics Oleg Gusikhin,Kurosh Madani,2019-04-18 The book focuses the latest endeavours relating researches and developments conducted in fields of Control Robotics and Automation Through more than twenty revised and extended articles the present

book aims to provide the most up to date state of art of the aforementioned fields allowing researcher PhD students and engineers not only updating their knowledge but also benefiting from the source of inspiration that represents the set of selected articles of the book The deliberate intention of editors to cover as well theoretical facets of those fields as their practical accomplishments and implementations offers the benefit of gathering in a same volume a factual and well balanced prospect of nowadays research in those topics A special attention toward Intelligent Robots and Control may characterize another benefit of this book   *Human Performance in Automated and Autonomous Systems, Two-Volume Set* Mustapha Mouloua,Peter A. Hancock,2019-12-17 This two volume set addresses a variety of human factors issues and engineering concerns across various real world applications such as aviation and driving cybersecurity and healthcare systems The contents of these books also present recent theories and methods related to human performance workload and usability assessment in automated and autonomous systems In this set the authors discuss both current and developing topics of advanced automation technologies and present emerging practical challenges Topics covered include unmanned aerial systems and self driving cars individual and team performance human robot interaction and operator selection and training Both practical and theoretical discussions of modern automated and autonomous systems are provided throughout each of the volumes These books are suitable for those first approaching the issues to those well versed in these fast moving areas including students teachers researchers engineers and policy makers alike Volume 1 Human Performance in Automated and Autonomous Systems Current Theory and Methods Volume 2 Human Performance in Automated and Autonomous Systems Emerging Issues and Practical Perspectives   *Innovative Technologies for Enhancing Experiences and Engagement* Azman Ismail,Fatin Nur Zulkipli,Rahimah Mahat,Mohd Amran Mohd Daril,Andreas Öchsner,2024-04-25 The book showcases how the technologies are transforming entertainment education and professional training offering readers real world examples of their applications Innovative Technologies for Enhancing Experiences and Engagement is an enlightening guide that reveals how emerging technologies are shaping our world offering insights into the evolving digital landscape and inspiring a future of more personalized immersive and engaging experiences   Advanced Computing, Networking and Security P. Santhi Thilagam,Alwyn Roshan Pais,K. Chandrasekaran,N. Balakrishnan,2012-04-02 This book constitutes revised selected papers from the International Conference on Advanced Computing Networking and Security ADCONS 2011 held in Surathkal India in December 2011 The 73 papers included in this book were carefully reviewed and selected from 289 submissions The papers are organized in topical sections on distributed computing image processing pattern recognition applied algorithms wireless networking sensor networks network infrastructure cryptography Web security and application security   **Annals of Scientific Society for Assembly, Handling and Industrial Robotics** Thorsten Schüppstuhl,Kirsten Tracht,Dominik Henrich,2020-08-21 This Open Access proceedings present a good overview of the current research landscape of industrial robots The objective of MHI Colloquium is a successful networking at academic and management level Thereby the

colloquium is focussing on a high level academic exchange to distribute the obtained research results determine synergetic effects and trends connect the actors personally and in conclusion strengthen the research field as well as the MHI community Additionally there is the possibility to become acquainted with the organizing institute Primary audience are members of the scientific association for assembly handling and industrial robots WG MHI   **Marine Robot Autonomy** Mae L. Seto,2012-12-09 Autonomy for Marine Robots provides a timely and insightful overview of intelligent autonomy in marine robots A brief history of this emerging field is provided along with a discussion of the challenges unique to the underwater environment and their impact on the level of intelligent autonomy required Topics covered at length examine advanced frameworks path planning fault tolerance machine learning and cooperation as relevant to marine robots that need intelligent autonomy   **Social Robotics** Adriana Tapus,Elisabeth André,Jean-Claude Martin,François Ferland,Mehdi Ammi,2015-10-27 This book constitutes the refereed proceedings of the 7th International Conference on Social Robotics ICSR 2015 held in Paris France in October 2015 The 70 revised full papers presented were carefully reviewed and selected from 126 submissions The papers focus on the interaction between humans and robots and the integration of robots into our society and present innovative ideas and concepts new discoveries and improvements novel applications on the latest fundamental advances in the core technologies that form the backbone of social robotics distinguished developmental projects as well as seminal works in aesthetic design ethics and philosophy studies on social impact and influence pertaining to social robotics and its interaction and communication with human beings and its social impact on our society   **Flight Formation Control** Josep M. Guerrero,Rogelio Lozano,2012-12-17 In the last decade the development and control of Unmanned Aerial Vehicles UAVs has attracted a lot of interest Both researchers and companies have a growing interest in improving this type of vehicle given their many civilian and military applications This book presents the state of the art in the area of UAV Flight Formation The coordination and robust consensus approaches are presented in detail as well as formation flight control strategies which are validated in experimental platforms It aims at helping students and academics alike to better understand what coordination and flight formation control can make possible Several novel methods are presented controllability and observability of multi agent systems robust consensus flight formation control stability of formations over noisy networks which generate solutions of guaranteed performance for UAV Flight Formation Contents 1 Introduction J A Guerrero 2 Theoretical Preliminaries J A Guerrero 3 Multiagent Coordination Strategies J A Guerrero R Lozano M W Spong N Chopra 4 Robust Control Design for Multiagent Systems with Parametric Uncertainty J A Guerrero G Romero 5 On Adaptive and Robust Controlled Synchronization of Networked Robotic Systems on Strongly Connected Graphs Y C Liu N Chopra 6 Modeling and Control of Mini UAV G Flores Colunga J A Guerrero J Escare o R Lozano 7 Flight Formation Control Strategies for Mini UAVs J A Guerrero 8 Formation Based on Potential Functions L Garc a A Dzul 9 Quadrotor Vision Based Control J E Gomez Balderas J A Guerrero S SALAZAR R Lozano P Castillo 10 Toward Vision Based Coordination of Quadrotor Platoons L

R Garc a Carrillo J A Guerrero R Lozano 11 Optimal Guidance for Rotorcraft Platoon Formation Flying in Wind Fields J A Guerrero Y Bestaoui R Lozano 12 Impact of Wireless Medium Access Protocol on the Quadrotor Formation Control J A Guerrero Y Challal P Castillo 13 MAC Protocol for Wireless Communications A Mendez M Panduro O Elizarraras D Covarrubias 14 Optimization of a Scannable Pattern for Bidimensional Antenna Arrays to Provide Maximum Performance A Reyna M A Panduro A Mendez **Human – Computer Systems Interaction: Backgrounds and Applications 2** Zdzisław S. Hippe,Juliusz L. Kulikowski,Tteresa Mroczek,2011-11-15 This volume of the book contains a collection of chapters selected from the papers which originally in shortened form have been presented at the 3rd International Conference on Human Systems Interaction held in Rzeszow Poland in 2010 The chapters are divided into five sections concerning IV Environment monitoring and robotic systems V Diagnostic systems VI Educational Systems and VII General Problems The novel concepts and realizations of humanoid robots talking robots and orthopedic surgical robots as well as those of direct brain computer interface are examples of particularly interesting topics presented in Sec VI In Sec V the problems of skin cancer recognition colonoscopy diagnosis and brain strokes diagnosis as well as more general problems of ontology design for medical diagnostic knowledge are presented Example of an industrial diagnostic system and a concept of new algorithm for edges detection in computer analyzed images are also presented in this Section Among the educational systems in Sec VII the remote teaching and testing methods in higher education a neurophysiological approach to aiding the learning process an entrepreneurship education system and a magnetic levitation laboratory systems are presented Sec VII contains papers devoted to selected general human computer systems interaction problems Among them the problems of rules formulation for automatic reasoning creation of ontologies Boolean recommenders in decision systems and languages for proteins structural similarity description can be mentioned The chapters included into both I and II volumes of the book illustrate a large variety of problems arising and methods used in the rapidly developing Human System Interaction research domain

Intelligent Robotics and Applications Honghai Liu,Naoyuki Kubota,Xiangyang Zhu,Rüdiger Dillmann,Dalin Zhou,2015-08-19 This three volume set LNAI 9244 9245 and 9246 constitutes the refereed proceedings of the 8th International Conference on Intelligent Robotics and Applications ICIRA 2015 held in Portsmouth UK in August 2015 The 61 papers included in the second volume are organized in topical sections on man machine interaction robot design development and control navigation and planning robot motion analysis and planning medical robot prototyping and manufacturing

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