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Jian S. Dai *Editors*

Advances in Reconfigurable Mechanisms and Robots II

Online Advances Reconfigurable Mechanisms Machine Science

National Academy of Sciences (U.S.).

Online Advances Reconfigurable Mechanisms Machine Science:

Performance Analysis and Optimization of Parallel Manipulators Qinchuan Li,Chao Yang,Lingmin Xu,Wei

Ye,2023-06-02 This book investigates the performance analysis and optimization design of parallel manipulators in detail It discusses performance evaluation indices for workspace kinematic stiffness and dynamic performance single and multi objective optimization design methods and ways to improve optimization design efficiency of parallel manipulators This book collects the authors research results previously scattered in many journals and conference proceedings and presents them in a unified form after the methodical edition As a result numerous performance analyses and optimization of parallel manipulators are presented in which the readers in the robotics community may be greatly interested More importantly readers can use the methods and tools introduced in this book to carry out performance evaluation and optimization of parallel manipulators by themselves The book can provide important reference and guideline for undergraduate and graduate students engineers and researchers who are interested in design and application of parallel manipulators

Advances in Computer, Information, and Systems Sciences, and Engineering Khaled Elleithy,Tarek Sobh,Ausif Mahmood,Maged Iskander,Mohammad A. Karim,2007-06-06 The conference proceedings of International Conference on Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground breaking conference The on line structure of this high quality event allowed academic professionals and industry participants to contribute work and attend world class technical presentations based on rigorously refereed submissions live without the need for investing significant travel funds or time out of the office Suffice to say that CISSE received submissions from more than 50 countries for whose researchers this opportunity presented a much more affordable dynamic and well planned event to attend and submit their work to versus a classic on the ground conference The CISSE conference audio room provided superb audio even over low speed internet connections the ability to display PowerPoint presentations and cross platform compatibility the conferencing software runs on Windows Mac and any other operating system that supports Java In addition the conferencing system allowed for an unlimited number of participants which in turn granted CISSE the opportunity to allow all participants to attend all presentations as opposed to limiting the number of available seats for each session The implemented conferencing technology starting with the submission review system and ending with the online conferencing capability allowed CISSE to conduct a very high quality fulfilling event for all participants See www.cisse2005.org sections IETA TENE EIAE *Advanced Mobile Robotics* DaeEun Kim,2020-03-06 Mobile robotics is a challenging field with great potential It covers disciplines including electrical engineering mechanical engineering computer science cognitive science and social science It is essential to the design of automated robots in combination with artificial intelligence vision and

sensor technologies Mobile robots are widely used for surveillance guidance transportation and entertainment tasks as well as medical applications This Special Issue intends to concentrate on recent developments concerning mobile robots and the research surrounding them to enhance studies on the fundamental problems observed in the robots Various multidisciplinary approaches and integrative contributions including navigation learning and adaptation networked system biologically inspired robots and cognitive methods are welcome contributions to this Special Issue both from a research and an application perspective Advances in Materials Manufacturing Science and Technology XIII: Advanced manufacturing technology and equipment, and manufacturing systems and automation ,2009

Laboratory for Computer Science Progress Report Massachusetts Institute of Technology. Laboratory for Computer Science,1996 **Recent Advances in Mechatronics - 1999** Okyay Kaynak,Marcelo Ang,Sabri Tosunoglu,1999-06 This is an interdisciplinary conference involved with the synergistic integration of mechanical engineering with electronics and intelligent computer control for design and manufacture of products and processes Topics include 1 mechatronics design 2 distributed systems 3 vision and sensors 4 robots and mobile machines 5 vibration and control 6 computational intelligence in mechatronics 7 embedded real time systems 8 micro mechatronics 9 motion control 10 hardware software co design and 11 intelligent manufacturing systems

Trustworthy Cyber-Physical Systems Engineering Alexander Romanovsky,Fuyuki Ishikawa,2016-10-03 From the Foreword Getting CPS dependability right is essential to forming a solid foundation for a world that increasingly depends on such systems This book represents the cutting edge of what we know about rigorous ways to ensure that our CPS designs are trustworthy I recommend it to anyone who wants to get a deep look at these concepts that will form a cornerstone for future CPS designs Phil Koopman Carnegie Mellon University Pittsburgh Pennsylvania USA Trustworthy Cyber Physical Systems Engineering provides practitioners and researchers with a comprehensive introduction to the area of trustworthy Cyber Physical Systems CPS engineering Topics in this book cover questions such as What does having a trustworthy CPS actually mean for something as pervasive as a global scale CPS How does CPS trustworthiness map onto existing knowledge and where do we need to know more How can we mathematically prove timeliness correctness and other essential properties for systems that may be adaptive and even self healing How can we better represent the physical reality underlying real world numeric quantities in the computing system How can we establish reason about and ensure trust between CPS components that are designed installed maintained and operated by different organizations and which may never have really been intended to work together Featuring contributions from leading international experts the book contains sixteen self contained chapters that analyze the challenges in developing trustworthy CPS and identify important issues in developing engineering methods for CPS The book addresses various issues contributing to trustworthiness complemented by contributions on TCSP roadmapping taxonomy and standardization as well as experience in deploying advanced system engineering methods in industry Specific approaches to ensuring trustworthiness namely proof and refinement are covered

as well as engineering methods for dealing with hybrid aspects **Scientific and Technical Aerospace Reports** ,1984-08
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