

Haptics For Virtual Reality And Teleoperation

Hiroyuki Kajimoto, Pedro Lopes, Claudio Pacchierotti, Cagatay Basdogan, Monica Gori, Betty Lemaire-Semail, Maud Marchal

Haptics For Virtual Reality And Teleoperation:

Haptics for Virtual Reality and Teleoperation Matjaž Miheli, Janez Podobnik, 2012-12-14 This book covers all topics relevant for the design of haptic interfaces and teleoperation systems. The book provides the basic knowledge required for understanding more complex approaches and more importantly it introduces all issues that must be considered for designing efficient and safe haptic interfaces Topics covered in this book provide insight into all relevant components of a haptic system The reader is guided from understanding the virtual reality concept to the final goal of being able to design haptic interfaces for specific tasks such as nanomanipulation The introduction chapter positions the haptic interfaces within the virtual reality context In order to design haptic interfaces that will comply with human capabilities at least basic understanding of human sensors motor system is required An overview of this topic is provided in the chapter related to human haptics The book does not try to introduce the state of the art haptic interface solutions because these tend to change quickly Only a careful selection of different kinematic configurations is shown to introduce the reader into this field Mathematical models of virtual environment collision detection and force rendering topics are strongly interrelated and are described in the next two chapters The interaction with the virtual environment is simulated with a haptic interface Impedance and admittance based approaches to haptic robot control are presented Stability issues of haptic interaction are analyzed in details and solutions are proposed for guaranteeing stable and safe operation Finally haptic interaction is extended to teleoperation systems Virtual fixtures which improve the teleoperation and human robot cooperation in complex environments are covered next and the last chapter presents nanomanipulation as one specific example of teleoperation Advances in Haptics and Virtual Reality Jianbo Su, Xiuguan Qiao, 2024-05-18 This book collects selected papers from the 2023 International Conference on Haptics and Virtual Reality ICHVR 2023 held during December 15 17 2023 ICHVR 2023 is organized by Southeast University SEU Shanghai Jiao Tong University SJTU and co organized by the International Association of Electrical Electronic and Energy Engineering IAEEEE This book gathers together latest findings and insightful ideas from innovative academics and experts in the field of Haptics Virtual Reality Human Computer Interaction Computer Vision Computer Arts Mobile Intelligent Device and Artificial Intelligent Algorithm This book serves as a valuable resource for staying up to date with the state of the art in Haptics and Virtual Reality and serves as a catalyst for further advancements and innovation in these fields which will provide unique perspectives for readers consisting of professionals scientists practitioners researchers and graduate students Haptics: Science, Technology, and Applications Domenico Prattichizzo, Hiroyuki Shinoda, Hong Z. Tan, Emanuele Ruffaldi, Antonio Frisoli, 2018-06-04 The two volume set LNCS 10893 and 10894 constitutes the refereed proceedings of the 11th International Conference EuroHaptics 2018 held in Pisa Italy in June 2018 The 95 papers 40 oral presentations and 554 poster presentations presented were carefully reviewed and selected from 138 submissions These proceedings reflect the multidisciplinary nature of EuroHaptics and cover all aspects of haptics including neuroscience

psychophysics perception engineering computing interaction virtual reality and arts *Haptics: Understanding Touch;* Technology and Systems; Applications and Interaction Hiroyuki Kajimoto, Pedro Lopes, Claudio Pacchierotti, Cagatay Basdogan, Monica Gori, Betty Lemaire-Semail, Maud Marchal, 2024-11-02 The two volume set LNCS 14768 14769 constitutes the refereed proceedings of the 14th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2024 held in Lille France during June 30 July 3 2024 The 81 full papers presented were carefully reviewed and selected from 142 submissions They were organized in topical sections as follows understanding touch technology and systems applications and interaction Control Design for Haptic Systems Suyong Kim, Doo Yong Lee, 2024-01-31 This book aims at the upper class undergraduate and the graduate students and practicing engineers in the disciplines of mechanical electrical and computer engineering with background knowledge of control This book first explains the components of the haptic systems that are gaining popularity in the virtual reality simulations the metaverse applications as well as the remotely operated robotic systems Next the book introduces the previous and current widely adopted methods for modeling and control of the haptic systems. The important metrics of performance such as stability and transparency of the haptic systems are explained and analyzed Shortcomings of the current methods are discussed using these metrics The book then explains the theories on the input to state stability ISS and shows how to formulate the control of haptic systems into the ISS framework Step by step process of control design using the formulation is detailed and better results are shown with experiment examples The book develops further the presented approach to secure improved performance under selected issues For example better transparency of the haptic rendering and handling of constant or time varying time delay present in the haptic control systems Haptics: Neuroscience, Devices, Modeling, and Applications Malika Auvray, Christian Duriez, 2014-10-09 The two volume set LNCS 8618 and 8619 constitutes the refereed proceedings of the 9th International Conference EuroHaptics 2014 held in Versailles France in June 2014 The 118 papers 36 oral presentations and 82 poster presentations presented were carefully reviewed and selected from 183 submissions Furthermore 27 demos were exhibited each of them resulting in a short paper included in the volumes These proceedings reflect the multidisciplinary nature of EuroHaptics and cover topics such as human computer interaction human robot interactions neuroscience perception and psychophysics biomechanics and motor control modelling and simulation and a broad range of applications in medicine rehabilitation art and design Novel Haptic Cues for UAV Tele-Operation Samantha Alaimo, 2014-01-15 Outlines three case studies obstacle avoidance wind gust rejection and a combination of the two In each case Direct Haptic Aid DHA and Indirect Haptic Aid IHA systems are designed and compared against baseline performance with no haptic aid This work aims to show that IHA is a valid and promising alternative to the other approaches which fall into the DHA category

<u>Haptics for Teleoperated Surgical Robotic Systems</u> M. Tavakoli,2008 An important obstacle in Minimally Invasive Surgery MIS is the significant degradation of haptic feedback sensation of touch to the surgeon about surgical instrument s

interaction with tissue This monograph is concerned with devices and methods required for incorporating haptic feedback in master slave robotic MIS systems In terms of devices novel mechanisms are designed including a surgical end effector slave with full force sensing capabilities and a surgeon robot interface master with full force feedback capabilities Using the master slave systems various haptic teleoperation control schemes are compared in terms of stability and performance and passivity based time delay compensation for haptic teleoperation over a long distance is investigated. The monograph also compares haptic feedback with visual feedback and with substitution for haptic feedback by other sensory cues in terms of surgical task performance Haptic Technology Ahmad Hoirul Basori, Sharaf J. Malebary, Omar M. Barukab, 2022-08-17 These days people s desire for an evolutionary interface is strong The new model of human machine interaction is expected to be more realistic and immersive Haptic technology plays a key role in this regard It can be used for medical robotics and digital heritage applications Over three sections and five chapters this book examines these potential uses of haptics Chapters discuss using haptic feedback to improve robotic perception for medical simulations and to enhance digital heritage Haptics: Science, Technology, Applications Hasti Seifi, Astrid M. L. Kappers, Oliver Schneider, Knut documentation Drewing, Claudio Pacchierotti, Alireza Abbasimoshaei, Gijs Huisman, Thorsten A. Kern, 2022-05-19 This open access book constitutes the proceedings of the 13th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2022 held in Hamburg Germany in May 2022 The 36 regular papers included in this book were carefully reviewed and selected from 129 submissions They were organized in topical sections as follows haptic science haptic technology and haptic applications Haptic Interaction Dangxiao Wang, Aiguo Song, Qian Liu, Ki-Uk Kyung, Masashi Konyo, Hiroyuki Kajimoto, Lihan Chen, Jee-Hwan Ryu, 2023-11-07 This book constitutes the proceedings of the 5th International Conference AsiaHaptics 2022 in Beijing China in November 2022 The 17 full papers included in this volume were carefully reviewed and selected from 46 submissions. The conference presents the latest developments of haptic hardware in education culture tourism medicine elderly care and disability assistance Haptics: Generating and Perceiving Tangible Sensations, Part I Astrid M. L. Kappers, Jan BF Van Erp, Wouter M Bergmann Tiest, Frans CT Van Der Helm, 2010-07-06 Annotation This book constitutes the proceedings of the conference on Haptics Generating and Perceiving Tangible Sensations held in Amsterdam Netherlands in July 2010 Haptics: Perception, Devices and Scenarios Manuel Ferre, 2008-05-27 This book constitutes the refereed proceedings of the 6th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2008 held in Madrid Spain in June 2008 The 119 revised full papers presented were carefully reviewed and selected from 150 submissions. The papers are organized in topical sections on control and technology haptic perception and psychophysics haptic devices haptics rendering and display multimodal interaction and telepresence as well as haptic applications

Haptics for Teleoperated Surgical Robotic Systems M. Tavakoli, 2008 An important obstacle in Minimally Invasive Surgery MIS is the significant degradation of haptic feedback

sensation of touch to the surgeon about surgical instrument's interaction with tissue This monograph is concerned with devices and methods required for incorporating haptic feedback in master slave robotic MIS systems In terms of devices novel mechanisms are designed including a surgical end effector slave with full force sensing capabilities and a surgeon robot interface master with full force feedback capabilities Using the master slave system various haptic teleoperation control schemes are compared in terms of stability and performance and passivity based time delay compensation for haptic teleoperation over a long distance is investigated The monograph also compares haptic feedback with visual feedback and with substitution for haptic feedback by other sensory cues in terms of surgical task performance Sample Chapter's Introduction 1 826 KB Contents Introduction Sensorized Surgical Effector Slave Haptic User Interface Master Unilateral Teleoperation Control Bilateral Teleoperation Control Substitution for Haptic Feedback Bilateral Teleoperation Control Under Time Delay Readership Researchers in robotics teleoperation haptics virtual reality sensor technology human machine interaction and minimally invasive surgery and therapy **Advances in Mechanical Processing and Design Prita** Pant, Sushil K. Mishra, Purna Chandra Mishra, 2020-11-25 This book presents selected proceedings of the International Conference on Advances in Mechanical Processing and Design ICAMPD 2019 The contents highlight latest research in next generation mechanical systems design thermal and fluid systems design materials and smart manufacturing processes and industrial engineering Some of the topics covered include smart materials materials processing and applications smart machinery and machine design system dynamics and simulation biomimetics energy systems micro and nano scale transport automotive engineering advance material characterization and testing and green and sustainable manufacturing Given the scope of the contents this book can be of interest to students researchers as well as industry professionals Technologies Abdulmotaleb El Saddik, Mauricio Orozco, Mohamad Eid, Jongeun Cha, 2011-09-15 The term haptics refers to the science of sensing and manipulation through touch Multiple disciplines such as biomechanics psychophysics robotics neuroscience and software engineering converge to support haptics and generally haptic research is done by three communities the robotics community the human computer interface community and the virtual reality community This book is different from any other book that has looked at haptics The authors treat haptics as a new medium rather than just a domain within one of the above areas They describe human haptic perception and interfaces and present fundamentals in haptic rendering and modeling in virtual environments Diverse software architectures for standalone and networked haptic systems are explained and the authors demonstrate the vast application spectrum of this emerging technology along with its accompanying trends The primary objective is to provide a comprehensive overview and a practical understanding of haptic technologies An appreciation of the close relationship between the wide range of disciplines that constitute a haptic system is a key principle towards being able to build successful collaborative haptic environments Structured as a reference to allow for fast accommodation of the issues concerned this book is intended for researchers interested in studying touch and force

feedback for use in technological multimedia systems in computer science electrical engineering or other related disciplines With its novel approach it paves the way for exploring research trends and challenges in such fields as interpersonal communication games or military applications **Stepping into Virtual Reality** Mario Gutierrez, F. Vexo, Daniel Thalmann, 2008-03-29 Virtual reality techniques are increasingly becoming indispensable in many areas This book looks at how to generate advanced virtual reality worlds It covers principles techniques devices and mathematical foundations beginning with basic definitions and then moving on to the latest results from current research and exploring the social implications of these Very practical in its approach the book is fully illustrated in colour and contains numerous examples exercises and case studies This textbook will allow students and practitioners alike to gain a practical understanding of virtual reality concepts devices and possible applications **Stepping into Virtual Reality** Mario A. Gutiérrez A., Frédéric Vexo, Daniel Thalmann, 2023-08-11 Virtual reality techniques are increasingly becoming indispensable in many areas This book looks at how to generate advanced virtual reality worlds It covers principles techniques devices and mathematical foundations beginning with basic definitions and then moving on to the latest results from current research and exploring the social implications of these Very practical in its approach the book is fully illustrated in colour and contains numerous examples exercises and case studies This textbook will allow students and practitioners alike to gain a practical understanding of virtual reality concepts devices and possible applications Social Robotics Oskar Palinko, Leon Bodenhagen, John-John Cabibihan, Kerstin Fischer, Selma Šabanović, Katie Winkle, Laxmidhar Behera, Shuzhi Sam Ge, Dimitrios Chrysostomou, Wanyue Jiang, Hongsheng He, 2025-03-24 The 3 volume set LNAI 15561 15563 constitutes the refereed proceedings of the 16th International Conference on Social Robotics ICSR AI 2024 held in Odense Denmark during October 23 26 2024 The 109 full papers and 19 short papers included in the proceedings were carefully reviewed and selected from 182 submissions The theme of this year's conference was Empowering Humanity The Tole of Social and Collaborative Robotics in Shaping Our Future The contributions focus on social robotics and AI across the domains of the visual and performing arts including design music live performance and interactive installations Universal Access in Human-Computer Interaction. Access to Learning, Health and Well-Being Margherita Antona, Constantine Stephanidis, 2015-07-18 The four LNCS volume set 9175 9178 constitutes the refereed proceedings of the 9th International Conference on Learning and Collaboration Technologies UAHCI 2015 held as part of the 17th International Conference on Human Computer Interaction HCII 2015 in Los Angeles CA USA in August 2015 jointly with 15 other thematically similar conferences The total of 1462 papers and 246 posters presented at the HCII 2015 conferences were carefully reviewed and selected from 4843 submissions These papers of the four volume set address the following major topics LNCS 9175 Universal Access in Human Computer Interaction Access to today s technologies Part I addressing the following major topics LNCS 9175 Design and evaluation methods and tools for universal access universal access to the web universal access to mobile

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The Top Books of the Year Haptics For Virtual Reality And Teleoperation The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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