

Springer Series on Touch and Haptic Systems

Ignacio Galiana
Manuel Ferre *Editors*

Multi-finger Haptic Interaction

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Multi Finger Haptic Interaction Springer Series On Touch And Haptic Systems

**Hiroyuki Kajimoto, Hideyuki Ando, Ki-
Uk Kyung**



Multi Finger Haptic Interaction Springer Series On Touch And Haptic Systems:

Multi-finger Haptic Interaction Ignacio Galiana, Manuel Ferre, 2014-07-08 Multi finger Haptic Interaction presents a panorama of technologies and methods for multi finger haptic interaction together with an analysis of the benefits and implications of adding multiple fingers to haptic applications Research topics covered include design and control of advanced haptic devices multi contact point simulation algorithms interaction techniques and implications in human perception when interacting with multiple fingers These multi disciplinary results are integrated into applications such as medical simulators for training manual skills simulators for virtual prototyping and precise manipulations in remote environments Multi finger Haptic Interaction presents the current and potential applications that can be developed with these systems and details the systems complexity The research is focused on enhancing haptic interaction by providing multiple contact points to the user This state of the art volume is oriented towards researchers who are involved in haptic device design rendering methods and perception studies as well as readers from different disciplines who are interested in applying multi finger haptic technologies and methods to their field of interest

Handbook of Virtual Environments Kelly S. Hale, Kay M. Stanney, 2014-09-10 A Complete Toolbox of Theories and Techniques The second edition of a bestseller Handbook of Virtual Environments Design Implementation and Applications presents systematic and extensive coverage of the primary areas of research and development within VE technology It brings together a comprehensive set of contributed articles that address the

Handbook of Research on Holistic Perspectives in Gamification for Clinical Practice Novák, Daniel, Tulu, Bengisu, Brendryen, Håvar, 2015-09-14 Over the past decade the healthcare industry has adopted games as a powerful tool for promoting personal health and wellness Utilizing principles of gamification to engage patients with positive reinforcement these games promote stronger attention to clinical and self care guidelines and offer exciting possibilities for primary prevention Targeting an audience of academics researchers practitioners healthcare professionals and even patients the Handbook of Research on Holistic Perspectives in Gamification for Clinical Practices reviews current studies and empirical evidence highlights critical principles of gamification and fosters the increasing application of games at the practical clinical level

Haptic Interaction with Deformable Objects Guido Böttcher, 2011-08-26 The focus from most Virtual Reality VR systems lies mainly on the visual immersion of the user But the emphasis only on the visual perception is insufficient for some applications as the user is limited in his interactions within the VR Therefore the textbook presents the principles and theoretical background to develop a VR system that is able to create a link between physical simulations and haptic rendering which requires update rates of 1 kHz for the force feedback Special attention is given to the modeling and computation of contact forces in a two finger grasp of textiles Addressing further the perception of small scale surface properties like roughness novel algorithms are presented that are not only able to consider the highly dynamic behaviour of textiles but also capable of computing the small forces needed for the tactile rendering at the contact point Final analysis of

the entire VR system is being made showing the problems and the solutions found in the work *Performance Metrics for Haptic Interfaces* Evren Samur, 2012-07-13 Haptics technology is being used more and more in different applications such as in computer games for increased immersion in surgical simulators to create a realistic environment for training of surgeons in surgical robotics due to safety issues and in mobile phones to provide feedback from user action The existence of these applications highlights a clear need to understand performance metrics for haptic interfaces and their implications on device design use and application Performance Metrics for Haptic Interfaces aims at meeting this need by establishing standard practices for the evaluation of haptic interfaces and by identifying significant performance metrics Towards this end a combined physical and psychophysical experimental methodology is presented Firstly existing physical performance measures and device characterization techniques are investigated and described in an illustrative way Secondly a wide range of human psychophysical experiments are reviewed and the appropriate ones are applied to haptic interactions The psychophysical experiments are unified as a systematic and complete evaluation method for haptic interfaces Finally synthesis of both evaluation methods is discussed The metrics provided in this state of the art volume will guide readers in evaluating the performance of any haptic interface The generic methodology will enable researchers to experimentally assess the suitability of a haptic interface for a specific purpose to characterize and compare devices quantitatively and to identify possible improvement strategies in the design of a system

Musical Haptics Stefano Papetti, Charalampos Saitis, 2018-05-02 This Open Access book offers an original interdisciplinary overview of the role of haptic feedback in musical interaction Divided into two parts part I examines the tactile aspects of music performance and perception discussing how they affect user experience and performance in terms of usability functionality and perceived quality of musical instruments Part II presents engineering computational and design approaches and guidelines that have been applied to render and exploit haptic feedback in digital musical interfaces Musical Haptics introduces an emerging field that brings together engineering human computer interaction applied psychology musical aesthetics and music performance The latter defined as the complex system of sensory motor interactions between musicians and their instruments presents a well defined framework in which to study basic psychophysical perceptual and biomechanical aspects of touch all of which will inform the design of haptic musical interfaces Tactile and proprioceptive cues enable embodied interaction and inform sophisticated control strategies that allow skilled musicians to achieve high performance and expressivity The use of haptic feedback in digital musical interfaces is expected to enhance user experience and performance improve accessibility for disabled persons and provide an effective means for musical tuition and guidance

Human-Robot Body Experience Philipp Beckerle, 2021-06-01 This monograph presents innovative research regarding the body experience of human individuals who are using assistive robotic devices such as wearable robots or teleoperation systems The focus is set on human in the loop experiments that help to empirically evaluate how users experience devices Moreover these experiments allow for further

examination of the underlying mechanisms of body experience through extending existing psychological paradigms e.g. by disentangling tactile feedback from contacts Besides reporting and discussing psychological examinations the influence of various aspects of engineering design is investigated e.g. different implementations of haptic interfaces or robot control As haptics are of paramount importance in this tight type of human robot interaction it is explored with respect to modality as well as temporal and spatial effects The first part of the book motivates the research topic and gives an in depth analysis of the experimental requirements The second and third part present experimental designs and studies of human robot body experience regarding the upper and lower limbs as well as cognitive models to predict them The fourth part discusses a multitude of design considerations and provides directions to guide future research on bidirectional human machine interfaces and non functional haptic feedback

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

Wayfinding and Navigation: Strengths and Weaknesses in Atypical and Clinical Populations Chiara Meneghetti, Ineke Van Der Ham, Francesca Pazzaglia, Michel Denis, 2020-12-09 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Haptic Interaction Hiroyuki Kajimoto, Hideyuki Ando, Ki-Uk Kyung, 2015-06-29 This book is aimed not only at haptics and human interface researchers but also at developers and designers from manufacturing corporations and the entertainment industry who are working to change our lives This publication comprises the proceedings of the first International AsiaHaptics conference held in Tsukuba Japan in 2014 The book describes the state of the art of the diverse haptics touch related research including scientific research into haptics perception and illusion development of haptics devices and applications for a wide variety of fields such as education medicine telecommunication navigation and entertainment

Engineering Haptic Devices Thorsten A. Kern, Christian Hatzfeld, Alireza Abbasimoshaei, 2022-11-05 This is an open access book In this third edition of Engineering Haptic Devices the software part was rewritten from scratch and now includes even more details on tactile and texture interaction modalities The kinematics section was improved to extend beyond a pure knowledge explanation to a comprehensive guideline on how to actually do and implement haptic kinematic functions The control section was reworked incorporating

some hands on experience on control implementation on haptic systems The system actuator and sensor design chapters were updated to allow easier access to the content This book is written for students and engineers faced with the development of a task specific haptic system Now 14 years after its first edition it is still a reference for the basics of haptic interaction and existing haptic systems and methods as well as an excellent source of information for technical questions arising in the design process of systems and components Following a system engineering approach it is divided into two parts with Part I containing background and reference information as a knowledge basis Typical application areas of haptic systems and a thorough analysis of haptics as an interaction modality are introduced The role of users in the design of haptic systems is discussed and relevant design and development stages are outlined Part II presents all related challenges in the design of haptic systems including general system architecture and control structures kinematics actuator principles and all types of sensors you may encounter doing haptic device development Beside these hardware and mechanical topics further chapters examine state of the art interfaces to operate the devices and hardware and software development to push haptic systems to their limits

CAD Tools and Algorithms for Product Design P. Brunet,C. Hoffmann,D. Roller,2013-03-09 Systems to support the continuously shrinking product development cycles and the increasing quality requirements need significant enhancements and new approaches In this book important new tools and algorithms for future product modeling systems are presented It is based on a seminar at the International Conference and Research Center for Computer Science Schlo Dagstuhl Germany presented by internationally recognised experts in CAD technology

Ultrasound Mid-Air Haptics for Touchless Interfaces Orestis Georgiou,William Frier,Euan Freeman,Claudio Pacchierotti,Takayuki Hoshi,2022-09-16 Over the last decade ultrasound mid air haptic technology has emerged and rapidly advanced to engage multidisciplinary scientific communities within and adjacent to the haptics and HCI fields Additionally this haptic technology has been adopted by a number of industry sectors e g automotive virtual reality digital signage neuroscience research who appear keen to exploit its unique value proposition the ability to deliver rich haptic sensations from a distance without the need to touch wear or hold anything in order to enhance touchless interfaces novel applications and experiences This book is the first and currently the only one that provides a comprehensive description of the technology encapsulating almost all aspects relating to electronic prototyping acoustics haptics psychology and perception user experience and end user HCI applications Through its 18 chapters written by 30 expert co authors this book is therefore an excellent introduction to the technology for anyone coming from any of those fields Specifically the reader will benefit by getting a unique and multi dimensional perspective on the state of the art of this enabling haptic technology while also understanding its history relevant best research practices and an overview of the various open challenges and opportunities

Haptics: Science, Technology, Applications Hasti Seifi,Astrid M. L. Kappers,Oliver Schneider,Knut 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

Robotics Goes MOOC Bruno Siciliano,2025-04-30 With the massive and pervasive diffusion of robotics technology in our society we are heading towards a new type of AI which we call Physical AI at the intersection of Robotics with AI that is the science of robots and intelligent machines performing a physical action to help humans in their jobs of daily lives Physical assistance to disabled or elderly people reduction of risks and fatigue at work improvement of production processes of material goods and their sustainability safety efficiency and reduction of environmental impact in transportation of people and goods progress of diagnostic and surgical techniques are all examples of scenarios where the new InterAction Technology IAT is indispensable The interaction between robots and humans must be managed in a safe and reliable manner The robot becomes an ideal assistant like the tool used by a surgeon a craftsman a skilled worker The new generation of robots will co exist the cobots with humans not only in the workplace but gradually in homes and communities providing support in services entertainment education health manufacturing and care As widely discussed above interaction plays a crucial role for the development of modern robotic systems Grasping manipulation and cooperative manipulators are covered in the first part of the third book of the Robotics Goes MOOC project respectively in Chapter 1 by Prattichizzo et al Chapter 2 by Kao et al and Chapter 3 by Caccavale Specific interaction issues along with the development of digital and physical interfaces are dealt with in Chapter 4 by Marchal et al and in Chapter 5 by Croft et al respectively Interaction between robot and human also means that a robot can be worn by a human as presented in Chapter 6 by Vitiello et al A different type of interaction at a cognitive and planning level is the focus of Chapter 7 by Lima devoted to multi robot systems and Chapter 8 by Song et al on networked cloud and fog robotics respectively [Springer Handbook of Robotics](#) Bruno Siciliano,Oussama Khatib,2008-05-20 With the science of robotics undergoing a major transformation just now Springer s new authoritative handbook on the subject couldn t have come at a better time Having broken free from its origins in industry robotics has been rapidly expanding into the challenging terrain of unstructured environments Unlike other handbooks that focus on industrial applications the Springer Handbook of Robotics incorporates these new developments Just like all Springer Handbooks it is utterly comprehensive edited by internationally renowned experts and replete with contributions from leading researchers from around the world The handbook is an ideal resource for robotics experts but also for people new to this expanding field [Universal Access in Human-Computer Interaction. Designing Novel Interactions](#) Margherita Antona,Constantine Stephanidis,2017-06-28 The three volume set LNCS 10277 10279 constitutes the refereed proceedings of the11th International Conference on Universal Access in Human Computer Interaction UAHCI 2017 held as part of the 19th International Conference on Human Computer Interaction HCII 2017 in Vancouver BC Canada in July 2017 jointly with 14

other thematically similar conferences The total of 1228 papers presented at the HCII 2017 conferences were carefully reviewed and selected from 4340 submissions The papers included in the three UAHCI 2017 volumes address the following major topics Design for All Methods and Practice Accessibility and Usability Guidelines and Evaluation User and Context Modelling and Monitoring and Interaction Adaptation Design for Children Sign Language Processing Universal Access to Virtual and Augmented Reality Non Visual and Tactile Interaction Gesture and Gaze Based Interaction Universal Access to Health and Rehabilitation Universal Access to Education and Learning Universal Access to Mobility Universal Access to Information and Media and Design for Quality of Life Technologies *Haptics: Perception, Devices, Control, and Applications* Fernando Bello,Hiroyuki Kajimoto,Yon Visell,2016-07-01 The two volume set LNCS 9774 and 9775 constitutes the refereed proceedings of the 10th International Conference EuroHaptics 2016 held in London UK in July 2016 The 100 papers 36 oral presentations and 64 poster presentations presented were carefully reviewed and selected from 162 submissions These proceedings reflect the multidisciplinary nature of EuroHaptics and cover topics such as perception of hardness and softness haptic devices haptics and motor control tactile cues control of haptic interfaces thermal perception robotics and sensing applications 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 **Intelligent Computing and Applications** B. Narendra Kumar Rao,R. Balasubramanian,Shiuh-Jeng Wang,Richi Nayak,2022-11-13 This book presents novel work of academicians researchers industry professionals practitioners and budding engineers to disseminate the most recent innovations trends and concerns along with the present day challenges and the solving approaches for implementation in the domains of data science intelligent computing and computer networks and security It is a collection of selected high quality research papers from the International Conference on Data Science Intelligent Computing and Cyber Security ICDIC 2020 organized by Sree Vidyanikethan Engineering College Tirupati India during 27 29 February 2020 It discusses the latest challenges and solutions in the field of data innovation data management data analysis data security and intelligent methods and applications

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