

Dangxiao Wang · Jing Xiao  
Yuru Zhang

# Haptic Rendering for Simulation of Fine Manipulation



Springer

# Haptic Rendering For Simulation Of Fine Manipulation

**IEEE Computer Society**



## **Haptic Rendering For Simulation Of Fine Manipulation:**

*Haptic Rendering for Simulation of Fine Manipulation* Dangxiao Wang, Jing Xiao, Yuru Zhang, 2014-10-17 This book introduces the latest progress in six degrees of freedom 6 DoF haptic rendering with the focus on a new approach for simulating force torque feedback in performing tasks that require dexterous manipulation skills One of the major challenges in 6 DoF haptic rendering is to resolve the conflict between high speed and high fidelity requirements especially in simulating a tool interacting with both rigid and deformable objects in a narrow space and with fine features The book presents a configuration based optimization approach to tackle this challenge Addressing a key issue in many VR based simulation systems the book will be of particular interest to researchers and professionals in the areas of surgical simulation rehabilitation virtual assembly and inspection and maintenance

**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 **2016**

**International Symposium on Experimental Robotics** Dana Kulić, Yoshihiko Nakamura, Oussama Khatib, Gentiane Venture, 2017-03-20 Experimental Robotics XV is the collection of papers presented at the International Symposium on Experimental Robotics Roppongi Tokyo Japan on October 3 6 2016 73 scientific papers were selected and presented after peer review The papers span a broad range of sub fields in robotics including aerial robots mobile robots actuation grasping manipulation planning and control and human robot interaction but shared cutting edge approaches and paradigms to experimental robotics The readers will find a breadth of new directions of experimental robotics The International Symposium on Experimental Robotics is a series of bi annual symposia sponsored by the International Foundation of Robotics Research whose goal is to provide a forum dedicated to experimental robotics research Robotics has been widening its scientific scope deepening its methodologies and expanding its applications However the significance of experiments remains and will remain at the center of the discipline The ISER gatherings are a venue where scientists can gather and talk about robotics based on this central tenet Healthcare Simulation and Online Learning Zaleha Abdullah Mahdy, Michelle A.

Kelly, Ismail Mohd Saiboon, Dinker R. Pai, 2022-07-05 **High Fidelity Haptic Rendering** Miguel A. Otaduy, Ming C. Lin, 2006-12-01 The human haptic system among all senses provides unique and bidirectional communication between humans and their physical environment Yet to date most human computer interactive systems have focused primarily on the graphical rendering of visual information and to a lesser extent on the display of auditory information Extending the frontier of visual computing haptic interfaces or force feedback devices have the potential to increase the quality of human computer interaction by accommodating the sense of touch They provide an attractive augmentation to visual display and enhance the

level of understanding of complex data sets They have been effectively used for a number of applications including molecular docking manipulation of nano materials surgical training virtual prototyping and digital sculpting Compared with visual and auditory display haptic rendering has extremely demanding computational requirements In order to maintain a stable system while displaying smooth and realistic forces and torques high haptic update rates in the range of 500 1000 Hz or more are typically used Haptics present many new challenges to researchers and developers in computer graphics and interactive techniques Some of the critical issues include the development of novel data structures to encode shape and material properties as well as new techniques for geometry processing data analysis physical modeling and haptic visualization This synthesis examines some of the latest developments on haptic rendering while looking forward to exciting future research in this area It presents novel haptic rendering algorithms that take advantage of the human haptic sensory modality Specifically it discusses different rendering techniques for various geometric representations e g point based polygonal multiresolution distance fields etc as well as textured surfaces It also shows how psychophysics of touch can provide the foundational design guidelines for developing perceptually driven force models and concludes with possible applications and issues to consider in future algorithmic design validating rendering techniques and evaluating haptic interfaces

**Haptic Rendering** Ming C. Lin,Miguel Otaduy,2008-07-25

For a long time human beings have dreamed of a virtual world where it is possible to interact with synthetic entities as if they were real It has been shown that the ability to touch virtual objects increases the sense of presence in virtual environments This book provides an authoritative overview of state of the art haptic rendering algorithms

**Guaranteed Stability for Collision Detection and Simulation of Hybrid Dynamical Systems** Volkan Patoğlu,2005

**Converging Clinical and Engineering Research on Neurorehabilitation V** Jose L. Pons,Jesus Tornero,Metin

Akay,2025-02-26 The book reports on advanced topics in the areas of neurorehabilitation research and practice It focuses on new methods for interfacing the human nervous system with electronic and mechatronic systems to restore or compensate impaired neural functions Importantly the book merges different perspectives such as the clinical neurophysiological and bioengineering ones to promote feed and encourage collaborations between clinicians neuroscientists and engineers Based on the 2024 International Conference on Neurorehabilitation ICNR2024 held in La Granja Spain on November 5 8 2024 this book covers various aspects of neurorehabilitation research and practice including new insights into biomechanics brain physiology neuroplasticity and brain damages and diseases as well as innovative methods and technologies for studying and or recovering brain function from data mining to interface technologies and neuroprosthetics In this way it offers a concise yet comprehensive reference guide to neurosurgeons rehabilitation physicians neurologists and bioengineers Moreover by highlighting current challenges in understanding brain diseases as well as in the available technologies and their implementation the book is also expected to foster new collaborations between the different groups thus stimulating new ideas and research directions

**Virtual Reality and Augmented Reality** Patrick Bourdot,Sue Cobb,Victoria

Interrante, Hirokazu kato, Didier Stricker, 2018-10-15 This book constitutes the refereed proceedings of the 15th International Conference on Virtual Reality and Augmented Reality EuroVR 2018 held in London UK in October 2018 The 9 full papers and 6 short papers presented were carefully reviewed and selected from 39 submissions The papers are organized in 5 topical sections vision based motion tracking 3D acquisition and 3D reconstruction haptics and 3D audio perception and cognition interactive techniques and use case studies      **Immersive Projection Technology and Virtual Environments 2001** B. Fröhlich, J. Deisinger, H.-J. Bullinger, 2012-12-06 17 papers report on the latest scientific advances in the fields of immersive projection technology and virtual environments The main topics included here are human computer interaction user interfaces interaction techniques software developments virtual environment applications rendering techniques and input output devices      *Computational Science - ICCS 2006* Vassil N. Alexandrov, G. Dick van Albada, Peter M.A. Sloot, J. J. Dongarra, 2006-05-12 This is Volume II of the four volume set LNCS 3991 3994 constituting the refereed proceedings of the 6th International Conference on Computational Science ICCS 2006 The 98 revised full papers and 29 revised poster papers of the main track presented together with 500 accepted workshop papers were carefully reviewed and selected for inclusion in the four volumes The coverage spans the whole range of computational science      **Handbook of Virtual Environments** Kelly S. Hale, Kay M. Stanney, 2002-01-01 This Handbook with contributions from leading experts in the field provides a comprehensive state of the art account of virtual environments VE It serves as an invaluable source of reference for practitioners researchers and students in this rapidly evolving discipline It also provides practitioners with a reference source to guide their development efforts and addresses technology concerns as well as the social and business implications with which those associated with the technology are likely to grapple While each chapter has a strong theoretical foundation practical implications are derived and illustrated via the many tables and figures presented throughout the book The Handbook presents a 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 principles required to define system requirements and design build evaluate implement and manage the effective use of VE applications The contributors provide critical insights and principles associated with their given area of expertise to provide extensive scope and detail on VE technology After providing an introduction to VE technology the Handbook organizes the body of knowledge into five main parts System Requirements specifies multimodal system requirements including physiological characteristics that affect VE system design Design Approaches and Implementation Strategies addresses cognitive design strategies identifies perceptual illusions that can be leveraged in VE design discusses navigational issues such as becoming lost within a virtual world and provides insights into structured approaches to content design Health and Safety Issues covers direct physiological effects signs symptoms neurophysiology and physiological correlates of motion sickness perceptual and perceptual motor adaptation and social concerns Evaluation addresses VE usability engineering and ergonomics human

performance measurement in VEs usage protocols and provides means of measuring and managing visual proprioceptive and vestibular aftereffects as well as measuring and engendering sense of presence Selected Applications of Virtual Environments provides a compendium of VE applications The Handbook closes with a brief review of the history of VE technology The final chapter provides information on the VE profession providing those interested with a number of sources to further their quest for the keys to developing the ultimate virtual world      **Visualization in Medicine** Bernhard

Preim,Dirk Bartz,2007-06-21 Visualization in Medicine is the first book on visualization and its application to problems in medical diagnosis education and treatment The book describes the algorithms the applications and their validation how reliable are the results and the clinical evaluation of the applications are the techniques useful It discusses visualization techniques from research literature as well as the compromises required to solve practical clinical problems The book covers image acquisition image analysis and interaction techniques designed to explore and analyze the data The final chapter shows how visualization is used for planning liver surgery one of the most demanding surgical disciplines The book is based on several years of the authors teaching and research experience Both authors have initiated and lead a variety of interdisciplinary projects involving computer scientists and medical doctors primarily radiologists and surgeons A core field of visualization and graphics missing a dedicated book until now Written by pioneers in the field and illustrated in full color Covers theory as well as practice      Medicine Meets Virtual Reality 21 J.D. Westwood,S.W. Westwood,L.

Felländer-Tsai,2014-02-12 This book presents the proceedings of the 21st NextMed MMVR conference held in Manhattan Beach California in February 2014 These papers describe recent developments in medical simulation modeling visualization imaging haptics robotics sensors interfaces and other IT enabled technologies that benefit healthcare The wide range of applications includes simulation for medical education and surgical training information guided therapies mental and physical rehabilitation tools and intelligence networks Since 1992 Nextmed MMVR has engaged the problem solving abilities of scientists engineers clinicians educators the military students and healthcare futurists Its multidisciplinary participation offers a fresh perspective on how to make patient care and medical education more precise and effective      **The Industrial**

**Information Technology Handbook** Richard Zurawski,2018-10-03 The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT and on evolving trends that are driven by the needs of companies and by industry led consortia and organizations Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration the Handbook covers topics such as industrial communication technology sensors and embedded systems The book is organized into two parts Part 1 presents material covering new and quickly evolving aspects of IT Part 2 introduces cutting edge areas of industrial IT The Handbook presents material in the form of tutorials surveys and technology overviews combining fundamentals and advanced issues with articles grouped into sections for a cohesive and comprehensive presentation The text contains 112 contributed reports by industry experts from

government companies at the forefront of development and some of the most renowned academic and research institutions worldwide Several of the reports on recent developments actual deployments and trends cover subject matter presented to the public for the first time    **Proceedings APGV ...** ,2004    **Computational Science - ICCS ...** ,2001    **Proceedings** IEEE Computer Society,1997    **Proceedings of the ASME Dynamic Systems and Control Division** ,1998    **Medicine Meets Virtual Reality 2000** James D. Westwood,2000

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