



Yasaman Sedaghat

Combined static-dynamic deformations with haptic rendering

Combined Static Dynamic Deformations With Haptic Rendering

Abdulmotaleb El Saddik



Combined Static Dynamic Deformations With Haptic Rendering:

Combined Static-dynamic Deformations with Haptic Rendering Yasaman Sedaghat,2013 Combined Static-Dynamic Deformations with Haptic Rendering Yasaman Sedaghat,2013 We present a real time physically based simulation method for animating high resolution elastic deformations with a focus on haptic interaction To achieve interactive rates without losing accuracy the reduced material stiffness matrix is precomputed by removing the equations that correspond to the internal nodes of the system In addition we employ linear modal analysis to precompute the natural vibration modes of the system We introduce a deformation coupling technique in order to achieve the reduced dynamic behaviour while keeping the high resolution local deformations To explore the implications of the coupling system we describe different integration techniques to time step the reduced dynamic solution in addition to evaluating the force feedback Moreover we show how we handle multiple contact points for non sticky materials To improve the contact handling procedure we employ our sliding technique to include friction We compare our proposed method to the previously existing techniques in terms of run time complexity and deformation properties using 3D meshes embedded in finite elements **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

Medicine Meets Virtual Reality 02/10 James D. Westwood,Helene M. Hoffman,Richard A. Robb,D. Stredney,2006-01-15 The book offers papers on many aspects of electronic technology in healthcare Core areas are imaging simulation visualization data networks sensors robotics and displays Medical applications include information guided surgery education and procedural training telemedicine immersive environments stereoscopic projection diagnostic tools rehabilitation and augmented reality The papers describe both completed projects and recent developments in ongoing research The book is a the collection of papers of the 10th annual Medicine Meets Virtual Reality conference January 2002 This volume is a resource for computer scientists working in medical context and for creators of data focused products for clinical care medical education and procedural training **The Biomechanics of the Tactile Perception of Friction** Laurence Willemet,2022-10-31 Humans rely on their sense of touch to perceive subtle movements and micro slippages to manipulate an impressive range of objects This incredible dexterity relies on fast and unconscious adjustments of the grip force that holds an object strong enough to avoid a catastrophic fall yet gentle enough not to damage it The Biomechanics of the Tactile Perception of Friction covers how the complex mechanical interaction is perceived by the nervous system to quickly infer the state of the contact for a swift and precise regulation of the grip The first part focuses on how humans assess friction at the contact initialization and the second part highlights an efficient coding strategy that the nervous system might use to continuously adjust the grip force to keep a constant safety margin before slippage Taken together these results

reveal how the perception of frictional information is encoded in the deformation of our skin The findings are useful for designing bio inspired tactile sensors for robotics or prosthetics and for improving haptic human machine interactions

IEEE ... Workshop on Multimedia Signal Processing ,2004 *Haptics Rendering and Applications* Abdulmotaieb El Saddik,2012-01-27 There has been significant progress in haptic technologies but the incorporation of haptics into virtual environments is still in its infancy A wide range of the new society s human activities including communication education art entertainment commerce and science would forever change if we learned how to capture manipulate and reproduce haptic sensory stimuli that are nearly indistinguishable from reality For the field to move forward many commercial and technological barriers need to be overcome By rendering how objects feel through haptic technology we communicate information that might reflect a desire to speak a physically based language that has never been explored before Due to constant improvement in haptics technology and increasing levels of research into and development of haptics related algorithms protocols and devices there is a belief that haptics technology has a promising future **Haptics: Perception, Devices and Scenarios** Manuel Ferre,2008-06-28 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 **Surgery Simulation and Soft Tissue Modeling** Nicholas Ayache,Hervé Delingette,2003-06-04 This book constitutes the refereed proceedings of the International Symposium on Surgery Simulation and Soft Tissue Modeling IS4TM 2003 held in Juan Les Pins France in June 2003 The 33 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 45 submissions The papers are organized in topical sections on soft tissue models haptic rendering cardiac modeling and patient specific simulators *VSMM 2000* Hal Thwaites,2000 *Experimental Robotics VIII* Bruno Siciliano,Paolo Dario,2003-01-21 This book is a collection of papers on the state of the art in experimental robotics Experimental Robotics is at the core of validating robotics research for both its systems science and theoretical foundations Because robotics experiments are carried out on physical complex machines of which its controllers are subject to uncertainty devising meaningful experiments and collecting statistically significant results pose important and unique challenges in robotics Robotics experiments serve as a unifying theme for robotics system science and algorithmic foundations These observations have led to the creation of the International Symposia on Experimental Robotics The papers in this book were presented at the 2002 International Symposium on Experimental Robotics , **Design, Specification and Verification of Interactive Systems '99** D.J. Duke,A. Puerta,2012-12-06 This book is the formal proceedings of the Eurographics Workshop on Design Specifi cation and Verification ofInteractive Systems DSV IS 99 which was held at the Uni versity of Minho Braga

Portugal from June 2 to June 4 1999 The previous events of this series were held at Pisa Toulouse Namur Granada and Abingdon the theme this year was Engaging the Mind by Enriching the Senses emphasising the importance of the interface in making interaction both effective and enjoyable Presentations and discussions covered topics that included specification methods and their use in design model based tool support task and dialogue models distributed col laboration and models for VR input As in previous years there was a strong emphasis on formal representations and modelling techniques and their use in understanding in teraction and informing the design of artefacts However the aim of the workshop is to encourage an exchange of views within a broad community and other approaches in particular tool support for model based design were also represented This book includes the papers of the two invited speakers one as an abstract only the fourteen full papers accepted for publication two shorter position papers and the reports from the working group discussions The format of the workshop aimed to mix formal paper presentations with informal discussion sessions with the two invited talks setting the tone for the meeting Proceedings of the ASME Dynamic Systems and Control Division ,1994 Haptics: Science, Technology, and Applications Domenico Prattichizzo,Hiroyuki Shinoda,Hong Z. Tan,Emanuele Ruffaldi,Antonio Frisoli,2018-06-05 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 **Comprehensive Healthcare Simulation: Neurosurgery** Ali Alaraj,2018-05-18 This book is a practical guide for the use of simulation in neurosurgery with chapters covering high fidelity simulation animal models simulation cadaveric simulation and virtual reality simulation Readers are introduced to the different simulation modalities and technologies and are guided on the use of simulation for a variety of learners including medical students residents practicing pediatricians and health related professionals Comprehensive Healthcare Simulation Neurosurgery is written and edited by leaders in the field and includes dozens of high quality color surgical illustrations and photographs as well as videos This book is part of the Comprehensive Healthcare Simulation Series which provides focused volumes on the use of simulation in a single specialty or on a specific simulation topic and emphasizing practical considerations and guidance **Haptics: Science, Technology, Applications** Ilana Nisky,Jess Hartcher-O'Brien,Michaël Wiertelowski,Jeroen Smeets,2020-09-04 This open access book constitutes the proceedings of the 12th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2020 held in Leiden The Netherlands in September 2020 The 60 papers presented in this volume were carefully reviewed and selected from 111 submissions The were organized in topical sections on haptic science haptic technology and haptic applications This year s focus is on accessibility Haptics: Generating and Perceiving Tangible Sensations, Part II Astrid M. L. Kappers,Jan BF Van

Erp, Wouter M Bergmann Tiest, Frans CT Van Der Helm, 2010-07-04 This book constitutes the proceedings of the conference on Haptics Generating and Perceiving Tangible Sensations held in Amsterdam Netherlands in July 2010 *The Sense of Touch and Its Rendering* Antonio Bicchi, Martin Buss, Marc O. Ernst, Angelika Peer, 2008-05-23 Sense of Touch and its Rendering presents a unique and interdisciplinary approach highlighting the field of haptic research from a neuropsychological as well as a technological point of view This edited book is the outcome of the TOUCH HapSys European research project and provides an important contribution towards a new generation of high fidelity haptic display technologies The book is structured in two parts A Fundamental Psychophysical and Neuropsychological Research and B Technology and Applications The two parts are not however separated and the many connections and synergies between the two complementary domains of research are highlighted in the text The eleven chapters discuss the recent advances in the study of human haptic kinaesthetic tactile temperature and multimodal visual auditory haptic perception mechanisms Besides the theoretical advancement the contributions survey the state of the art in the field report a number of practical applications to real systems and discuss possible future developments **Haptics for Virtual Reality and Teleoperation** Matjaž Mihelj, 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

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