Towards Real-time Simulation of Deformable Objects

Tiantian Liu Microsoft Research Asia USTC Summer School Talk 07/02/2019

Real Time Simulation And Visualization Of Deformable Objects

Hirokazu Takahashi

Real Time Simulation And Visualization Of Deformable Objects:

Real-time Simulation and Visualization of deformable Objects Joachim Georgii, 2008-08-06 Doctoral Thesis Dissertation from the year 2007 in the subject Computer Science Applied grade 1 0 Technical University of Munich Institut f r Informatik language English abstract In this thesis I present a framework for physical simulation and visualization of deformable volumetric bodies in real time Based on the implicit finite element method a multigrid approach for the efficient numerical simulation of elastic materials has been developed Due to the optimized implementation of the multigrid scheme 200 000 elements can be simulated at a rate of 10 time steps per second. The approach enables realistic and numerically stable simulation of bodies that are described by tetrahedral or hexahedral grids It can efficiently simulate heterogeneous bodies i e bodies that are composed of material with varying stiffness and includes linear as well as non linear material laws To visualize deformable bodies a novel rendering method has been developed on programmable graphics hardware It includes the efficient rendering of surfaces as well as interior volumetric structures Both the physical simulation framework and the rendering approach have been integrated into a single simulation support system Thereby available communication bandwidths have been efficiently exploited To enable the use of the system in practical applications a novel approach for collision detection has been included This approach allows one to handle geometries that are deformed or even created on the graphical subsystem Computer Vision and Computer Graphics. Theory and Applications José Braz, Alpesh Kumar Ranchordas, Hélder J. Araújo, Joao Madeiras Pereira, 2008-12-05 This book includes selected papers from VISIGRAPP 2007 the Joint Conference on Computer Vision and Computer Graphics comprising two component conferences namely the International Conference on Computer Vision Theory and Applications VISAPP and the International Conference on Computer Graphics Theory and App cations GRAPP held in Barcelona Spain during March 8 11 2007 We received guite a high number of paper submissions 382 in total for both conf ences We had contributions from more than 50 countries in all five continents This confirms the success and global dimension of these jointly organized conferences After a rigorous double blind evaluation method a total of 78 submissions were accepted as full papers From those 18 got selected for inclusion in this book To ensure the sci tific quality of the contributions these were selected from papers that were evaluated with the highest scores by the VISIGRAPP Program Committee members and then they were extended and revised by the authors Special thanks go to all contributors and re rees without whom this book would not have been possible VISIGRAPP 2007 included four invited keynote lectures presented by internati ally recognized researchers. The presentations represented an important contribution to increasing the overall quality of the conference We would like to express our preciation to all invited keynote speakers in alphabetical order Jake K Aggarwal The University of Texas at Austin USA Andr Gagalowicz INRIA France Wo gang Heidrich University of British Columbia Canada Mel Slater Universitat Polit cnica de Catalunya Spain Medical Simulation Dimitris Metaxas, Stephane Cotin, 2004-06-16 This book contains the written contributions to the

International Symposium on th Medical Simulation ISMS 04 held in Cambridge Massachusetts USA on June 17 th and June 18 2004 Manuscripts are organized around five thematic sections relating to the multidisciplinary field of Medical Simulation Soft Tissue Properties and Modeling Haptic Rendering Real Time Deformable Models Anatomical Modeling and Development Frameworks The objectives of the symposium are to gather researchers to present their most recent and promising work to highlight research trends and foster dialogue and debates among participants Live demonstrations are also included at the meeting but cannot be included in this volume Finally to address questions about areas for improvement and future directions of the field we organized a panel of experts including technical medical and educational representatives. This event continues the successful symposium organized by Herv Delingette and Nicholas Ayache in France in June 2003 At that meeting we agreed that it would be beneficial for the community to have an annual gathering for the medical simulation community where researchers can exchange ideas and share their work in this emerging field ISMS 04 is co organized by CIMIT Harvard Medical School and Rutgers University **Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001** Wiro J. Niessen, Max A. Viergever, 2003-06-30 In the four years of its existence MICCAI has developed into the premier nual conference on medical image computing and computer assisted intervition The single track conference has an interdisciplinary character bringing getherresearchersfromboththenaturalsciencesandvariousmedicaldisciplines It provides the international forum for developments concerning all aspects of medical image processing and visualization image guided and computer aided techniques and robot technology in medicine The strong interest in MICCAI is con rmed by the large number of subm sions we received this year which by far surpassed our expectations The arrival of the shipload of papers just before the deadlines one in the European and the otherin the Americantime zone was a particularly enjoyable experience as was the whole procedure of preparing the scienti c programme Both the quantity and quality of the submissions allowed us to compose a volume of high quality papers which we are sure will contribute to the further development of this exciting eld of research As for the hard numbers in total 338 submissions were received Next to full papers short communications were solicited for works in progress hardware prototypes and clinical case studies Long papers were reviewed by three or four reviewers and short papers by two or three reviewers The nal selection of papers was carried out by the Programme Board Out of the 246 long

papers 36 were accepted for oral presentation and 100 as full posters An additional 75 of the long papers and 47 out of 92 short papers were accepted as short posters Biomedical Simulation Matthias Harders, Gábor Székely, 2006-06-22 This book constitutes the refereed proceedings of the Third International Symposium on Biomedical Simulation ISBMS 2006 held in Zurich Switzerland in July 2006 The 12 revised full papers and 11 poster papers presented were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on simulation of biophysical processes systems and applications and anatomical modeling and tissue properties Simulation, Modeling, and Programming for Autonomous

Robots Itsuki Noda, Noriako Ando, Davide Brugali, James J. Kuffner, 2012-10-20 This book constitutes the refereed proceedings of the Third International Conference on Simulation Modeling and Programming for Autonomous Robots SIMPAR 2012 held in Tsukuba Japan in November 2012 The 33 revised full papers and presented together with 3 invited talks were carefully reviewed and selected from 46 submissions Ten papers describe design of complex behaviors of autonomous robots 9 address software layers 8 papers refer to related modeling and learning The papers are organized in topical sections on mobile robots software modeling and architecture and humanoid and biped robots Visual Informatics: Bridging Research and Practice Halimah Badioze Zaman, Peter Robinson, Maria Petrou, Patrick Olivier, Heiko Schröder, 2009-11-14 Visual informatics is a field of interest not just among the information technology and computer science community but also other related fields such as engineering me cal and health informatics and education starting in the early 1990s Recently the field is gaining more attention from researchers and industry It has become a mul disciplinary and trans disciplinary field related to research areas such as computer vision visualization information visualization real time image processing medical image processing image information retrieval virtual reality augmented reality pressive visual mathematics 3D graphics multimedia fusion visual data mining visual ontology as well as services and visual culture Various efforts has been vested in different research but operationally many of these systems are not pro nent in the mass market and thus knowledge and research on these phenomena within the mentioned areas need to be shared and disseminated It is for this reason that the Visual Informatics Research Group from Universiti bangsaan Malaysia UKM decided to spearhead this initiative to bring together experts in this very diversified but important research area so that more concerted efforts can be undertaken not just within the visual informatics community in Malaysia but from other parts of the world namely Asia Europe Oceania and USA This first International Visual Informatics Conference IVIC 2009 was conducted collaboratively by the visual informatics research community from the various public and private institutions of higher learning in Malaysia and hosted by UKM Biopsy Hirokazu Takahashi, 2011-09-06 Liver biopsy is recommended as the gold standard method to determine diagnosis fibrosis staging prognosis and therapeutic indications in patients with chronic liver disease However liver biopsy is an invasive procedure with a risk of complications which can be serious This book provides the management of the complications in liver biopsy Additionally this book provides also the references for the new technology of liver biopsy including the non invasive elastography imaging methods and blood panels which could be the alternatives to liver biopsy The non invasive methods especially the elastography which is the new procedure in hot topics which were frequently reported in these years In this book the professionals of elastography show the mechanism availability and how to use this technology in a clinical field of elastography The comprehension of elastography could be a great help for better dealing and for understanding of liver biopsy Virtual Reality in Medicine Robert Riener, Matthias Harders, 2012-04-23 Virtual Reality has the potential to provide descriptive and practical information for medical training and therapy while relieving the patient

or the physician Multimodal interactions between the user and the virtual environment facilitate the generation of high fidelity sensory impressions by using not only visual and auditory but also kinesthetic tactile and even olfactory feedback modalities On the basis of the existing physiological constraints Virtual Reality in Medicine derives the technical requirements and design principles of multimodal input devices displays and rendering techniques Resulting from a course taught by the authors Virtual Reality in Medicine presents examples for surgical training intra operative augmentation and rehabilitation that are already in use as well as those currently in development It is well suited as introductory material for engineering and computer science students as well as researchers who want to learn more about basic technologies in the area of virtual reality applied to medicine It also provides a broad overview to non engineering students as well as clinical users who desire to learn more about the current state of the art and future applications of this technology **Bounce**, **Tumble, and Splash!** Tony Mullen,2008-06-06 Learn all about Blender the premier open source 3D software in Bounce Tumble and Splash Simulating the Physical World with Blender 3D You will find step by step instructions for using Blender's complex features and full color visual examples with detailed descriptions of the processes If you re an advanced Blender user you will appreciate the sophisticated coverage of Blender's fluid simulation system a review Blender's latest features and a guide to the Bullet physics engine which handles a variety of physics simulations such as rigid body dynamics and rag doll physics

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