

OpenNI/NiTE 1.5

User Application

OpenNI 1.5

Middleware
Plug-in,
e.g., NiTE

OpenNI 1.5

Depth Skeleton
(example)

OpenNI/NiTE 2

User Application

Middleware
module, e.g.,
NiTE

OpenNI 2

OpenNI2 Drivers:
E.g., PS1080, Kinect and ONI files

3rd party custom
drivers



Openni User Guide

Christian G. Meyer



OpenNI User Guide:

Kinect Open Source Programming Secrets Andrew Davison, 2012-05-22 Program Kinect to do awesome things using a unique selection of open source software The Kinect motion sensing device for the Xbox 360 and Windows became the world's fastest selling consumer electronics device when it was released 8 million sold in its first 60 days and won prestigious awards such as Gaming Gadget of the Year Now Kinect Open Source Programming Secrets lets YOU harness the Kinect's powerful sensing capabilities for gaming science multimedia projects and a mind boggling array of other applications on platforms running Windows Mac OS and Linux Dr Andrew Davison a user interface programming expert delivers exclusive coverage of how to program the Kinect sensor with the Java wrappers for OpenNI and NITE which are APIs created by PrimeSense the primary developers of the Kinect's technology Beginning with the basics depth imaging 3D point clouds skeletal tracking and hand gestures the book examines many other topics including Kinect gaming FFAST style gestures that aren't part of standard NITE motion detection using OpenCV how to create gesture driven GUIs accessing the Kinect's motor and accelerometer and other tips and techniques Inside Free open source APIs to let you develop amazing Kinect hacks for commercial or private use Full coverage of depth detection camera and infrared imaging point clouds Kinect gaming 3D programming gesture based GUIs and more Online access to detailed code examples on the author's web site plus bonus chapters on speech recognition beamforming and other exotica

New Geometric Data Structures for Collision

Detection and Haptics René Weller, 2013-07-12 Starting with novel algorithms for optimally updating bounding volume hierarchies of objects undergoing arbitrary deformations the author presents a new data structure that allows for the first time the computation of the penetration volume The penetration volume is related to the water displacement of the overlapping region and thus corresponds to a physically motivated and continuous force The practicability of the approaches used is shown by realizing new applications in the field of robotics and haptics including a user study that evaluates the influence of the degrees of freedom in complex haptic interactions New Geometric Data Structures for Collision Detection and Haptics closes by proposing an open source benchmarking suite that evaluates both the performance and the quality of the collision response in order to guarantee a fair comparison of different collision detection algorithms Required in the fields of computer graphics physically based simulations computer animations robotics and haptics collision detection is a fundamental problem that arises every time we interact with virtual objects Some of the open challenges associated with collision detection include the handling of deformable objects the stable computation of physically plausible contact information and the extremely high frequencies that are required for haptic rendering New Geometric Data Structures for Collision Detection and Haptics presents new solutions to all of these challenges and will prove to be a valuable resource for researchers and practitioners of collision detection in the haptics robotics and computer graphics and animation domains

Human-Computer Interaction: Interaction Modalities and Techniques Masaaki Kurosu, 2013-07-01 The five

volume set LNCS 8004 8008 constitutes the refereed proceedings of the 15th International Conference on Human Computer Interaction HCII 2013 held in Las Vegas NV USA in July 2013 The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas This volume contains papers in the thematic area of human computer interaction addressing the following major topics speech natural language and auditory interfaces gesture and eye gaze based Interaction touch based interaction haptic interaction graphical user interfaces and visualisation **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 the 11th 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 *Intelligent Technologies for Interactive Entertainment* Matei Mancas, Nicolas d'Alessandro, Xavier Siebert, Bernard Gosselin, Carlos Valderrama, Thierry Dutoit, 2013-11-30 This book constitutes the proceedings of the 5th International Conference on Intelligent Technologies for Interactive Entertainment INTETAIN 2013 The 23 full papers presented were carefully selected from numerous submissions The conference aims at enhancing the understanding of recent and anticipated advances in interactive technologies and their applications to entertainment education culture and the arts The papers are grouped in topical sections on linked media gaming technologies and technologies for live entertainment **Information and Communication Technologies for Ageing Well and e-Health** Panagiotis D. Bamidis, Martina Ziefle, Leszek A. Maciaszek, 2019-03-21 This book constitutes the thoroughly refereed proceedings of the third International Conference on Communication Technologies for Ageing Well and e Health ICT4AWE 2018 held in Funchal Madeira Portugal in March 2018 The 10 full papers presented were carefully reviewed and selected from 32 submissions The papers aim at contributing to the understanding of relevant trends of current research on ICT for Ageing Well and eHealth including the ambient assisted living *Advances in Multimedia Modeling*

Shipeng Li,Abdulmotaleb El Saddik,Meng Wang,Tao Mei,Nicu Sebe,Shuicheng Yan,Richang Hong,Cathal Gurrin,2013-01-05
The two volume set LNCS 7732 and 7733 constitutes the thoroughly refereed proceedings of the 19th International Conference on Multimedia Modeling MMM 2012 held in Huangshan China in January 2013 The 30 revised regular papers 46 special session papers 20 poster session papers and 15 demo session papers and 6 video browser showdown were carefully reviewed and selected from numerous submissions The two volumes contain papers presented in the topical sections on multimedia annotation I and II interactive and mobile multimedia classification recognition and tracking I and II ranking in search multimedia representation multimedia systems poster papers special session papers demo session papers and video browser showdown **Sound - Perception - Performance** Rolf Bader,2013-05-23 Musical Performance covers many aspects like Musical Acoustics Music Psychology or motor and prosodic actions It deals with basic concepts of the origin or music and its evolution ranges over neurocognitive foundations and covers computational technological or simulation solutions This volume gives an overview about current research in the foundation of musical performance studies on all these levels Recent concepts of synchronized systems evolutionary concepts basic understanding of performance as Gestalt patterns theories of chill as performance goals or historical aspects are covered The neurocognitive basis of motor action in terms of music musical syntax as well as therapeutic aspects are discussed State of the art applications in performance realizations like virtual room acoustics virtual musicians new concepts of real time physical modeling using complex performance data as input or sensor and gesture studies with soft and hardware solutions are presented So although the field is still much larger this volume presents current trends in terms of understanding implementing and perceiving performance **Electrodynamic and Mechatronic Systems** Bronisław Tomczuk,Andrzej Waindok,Jan Zimon,2014-02-27 Selected peer reviewed extended papers from the International Symposium on Electrodynamic and Mechatronic Systems SELM 2013 May 15 18 2013 Zawiercie Poland The LabVIEW Student Edition Lisa K. Wells,1995 This text should make it easy to build custom systems for data acquisition instruments control data analysis and data presentation It offers a programming methodology in which users graphically assemble software modules called Virtual Instruments VIs LabVIEW can be used in a variety of industries and applications including simulating heart functions controlling an ice cream making process detecting hydrogen gas leaks on the space shuttle modelling power systems to analyze power quality and testing electronic circuit boards in computer and electronic devices **Theoretical Investigations of the Interactions of Oxygen and Sulfur at a Nickel Surface** Lauri Samuli Pirttiäho,1997 Advance Working Papers ,1988 **Advanced Management** ,1958 **American Builder** ,1914 The Surveyor & Municipal & County Engineer ,1961
Nickel-cadmium Battery Update ,1988 **Energy Research Abstracts** ,1988 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information

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