

CSE202

Computer Graphics Using OpenGL

Unit I

Overview of Computer Graphics

07-02-2023

Syllabus

Course Code: CSE202
Semester: IV

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COMPUTER GRAPHICS USING OPENGL

Course Objectives

This course will help the learner to develop and implement algorithms to create 2-D & 3-D objects. This course will also help the learner to manipulate, view, and render the objects using geometric transformations, viewing procedures, and shading algorithms.

UNIT - I

Overview of graphics systems: Video display devices - Raster scan systems - Introduction to OpenGL, **Graphics Output Primitives and Attributes:** Specifying a two-dimensional world co-ordinate reference frame in OpenGL - OpenGL point functions, OpenGL Line & Polygon functions, Line drawing Algorithms (DDA, BAA) - Circle generating algorithms - Ellipse generating algorithms - Line attributes - Curve attributes - Fill area attributes (Scan-line fill, Boundary Fill, Flood Fill) - Equivalent OpenGL functions including visualization

15 Periods

UNIT - II

2-D Geometric Transformation: Basic 2D transformations - Homogeneous coordinates -

15 Periods

Computer Graphics Using OpenGL Solution Manual

António E. Ruano, Peter J. Fleming



Computer Graphics Using Opengl Solution Manual:

Computer Vision, Imaging and Computer Graphics Theory and Applications A. Augusto de Sousa, Thomas Bashford-Rogers, Alexis Paljic, Mounia Ziat, Christophe Hurter, Helen Purchase, Petia Radeva, Giovanni Maria Farinella, Kadi Bouatouch, 2024-08-21 This book constitutes the refereed post conference proceedings of the 19th International Joint Conference on Computer Vision Imaging and Computer Graphics Theory and Applications VISIGRAPP 2023 held in Lisbon Portugal during February 19 21 2023 The 17 revised full papers presented were carefully selected from 395 submissions VISIGRAPP aims to bring together researchers and practitioners interested in theoretical advances and applications of computer vision information visualization computer graphics and interaction

Mechatronic Systems 2004 Reza Moheimani, 2006-01-10

Essentials of Interactive Computer Graphics Kelvin Sung, Peter Shirley, Steven Baer, 2008-11-06 This undergraduate level computer graphics text provides the reader with conceptual and practical insights into how to approach building a majority of the interactive graphics applications they encounter daily As each topic is introduced students are guided in developing a software library that will support fast prototyping of moderately complex

Medical Image Computing and Computer-Assisted Intervention - MICCAI 2000 Scott L. Delp, Anthony M. DiGoia, Branislav Jaramaz, 2004-02-12 This book constitutes the refereed proceedings of the Third International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2000 held in Pittsburgh PA USA in October 2000 The 136 papers presented were carefully reviewed and selected from a total of 194 submissions The book offers topical sections on neuroimaging and neuroscience segmentation oncology medical image analysis and visualization registration surgical planning and simulation endoscopy and laparoscopy cardiac image analysis vascular image analysis visualization surgical navigation medical robotics plastic and craniofacial surgery and orthopaedics

Pattern Recognition DAGM (Organization). Symposium, Bernd Michaelis, Gerard Krell, 2003-09-16 This book constitutes the refereed proceedings of the 25th Symposium of the German Association for Pattern Recognition DAGM 2003 held in Magdeburg Germany in September 2003 The 74 revised papers presented were carefully reviewed and selected from more than 140 submissions The papers address all current issues in pattern recognition and are organized in sections on image analyses calibration and 3D shape recognition motion biomedical applications and applications

Pattern Recognition Bernd Michaelis, Gerard Krell, 2003-09-09 This book constitutes the refereed proceedings of the 25th Symposium of the German Association for Pattern Recognition DAGM 2003 held in Magdeburg Germany in September 2003 The 74 revised papers presented were carefully reviewed and selected from more than 140 submissions The papers address all current issues in pattern recognition and are organized in sections on image analyses calibration and 3D shape recognition motion biomedical applications and applications

Mechatronic Systems 2004 S. O. Reza Moheimani, 2005

Course Notes , 1994

Dr. Dobb's Journal , 1999

Rendering Techniques '96 Xavier Pueyo, Peter Schröder, 2012-12-06 27 contributions treat the state of the art in

Monte Carlo and Finite Element methods for radiosity and radiance Further special topics dealt with are the use of image maps to capture light throughout space complexity volumetric stochastic descriptions innovative approaches to sampling and approximation and system architecture The Rendering Workshop proceedings are an obligatory piece of literature for all scientists working in the rendering field but they are also very valuable for the practitioner involved in the implementation of state of the art rendering system certainly influencing the scientific progress in this field *An Adaptive 3D Cartesian Approach for the Parallel Computation of Inviscid Flow about Static and Dynamic Configurations* Jason Daniel Hunt, 2004

Interactive 3D Graphics in Windows® Roy Hall, Danielle Forsyth, 1995-08-10 This guide uses a component software approach to help Visual C programmers develop windows integrated interactive 3 D graphics applications quickly and easily The book includes JOEY a 3D user interface toolkit that addresses interaction issues not dealt with in the Microsoft User Interface Style Guide Using this book and JOEY an experienced Visual C programmer can create an interactive 3D application in just a few hours **Algorithms and Architectures for Real-time Control 1997, AARTC '97** António E. Ruano, Peter J. Fleming, 1997 These proceedings contain the selection of papers presented at the IFAC Workshop on Algorithms and Architectures for Real Time Control AARTC 97 held at the Vilamoura Marina Hotel Vilamoura Portugal Rapid developments in microelectronics and computer science continue to provide opportunities for real time control engineers to address new challenges New opportunities arise from such diverse directions as ever increasing system complexity and sophistication environmental legislation economic competition safety and reliability These are typical themes which were highlighted at the IFAC AARTC 97 Workshop The AARTC 97 Final Programme consisted of 22 sessions covering major areas of software hardware and applications for real time control Important topics were soft computing methods software tools and architectures embedded systems parallel and distributed systems architectures custom processors algorithms estimation methods neural networks fuzzy methods PID controllers transport applications industrial process control robotics and discrete event and hybrid systems Technologies for E-Learning and Digital Entertainment Zhigeng Pan, Ruth Aylett, Holger Diener, Xiaogang Jin, Stefan Göbel, Li Li, 2006-03-22 This book constitutes the refereed proceedings of the First International Conference on E learning and Games Edutainment 2006 held in Hangzhou China in April 2006 The 121 revised full papers and 52 short papers presented together with the abstracts of 3 invited papers and those of the keynote speeches cover a wide range of topics including e learning platforms and tools learning resource management practice and experience sharing e learning standards and more C/C++ Users Journal , 1999 **VIS 2002** Robert J. Moorhead, Markus Gross, Kenneth I. Joy, 2002 Real Time Graphics , 2002 **Proceedings of the ... IEEE Intelligent Vehicles Symposium** , 2000 Proceedings , 1998 *PC Graphics & Video* , 1997

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