COMPUTER GRAPHICS LECTURE NOTES

TOPIC 1: INTRODUCTION TO COMPUTER GRAPHICS

Computer graphics is an art of drawing pictures on computer screens with the help of programming. It involves computations, creation, and manipulation of data. In other words, we can say that computer graphics is a rendering tool for the generation and manipulation of images.

- TECHNICALLY, it's about the production, manipulation and display of images using computers
- PRACTICALLY, it's about movies, games, art, training, advertising, communication, design,

COMPUTER GRAPHICS BASICS

I. APPLICATION OF COMPUTER GRAPHICS

Computer Graphics has numerous applications, some of which are listed below:

- Computer graphics user interfaces (GUIs) A graphic, mouse-oriented paradigm which allows the user to interact with a computer.
- Business presentation graphics "A picture is worth a thousand words".
- □ Cartography Drawing maps.
- □ Weather Maps Real-time mapping, symbolic representations.
- ☐ Satellite Imaging Geodesic images.
- □ Photo Enhancement Sharpening blurred photos.
- Medical imaging MRIs, CAT scans, etc. Non-invasive internal examination.
- Engineering drawings mechanical, electrical, civil, etc. Replacing the blueprints of the past.
- □ Typography The use of character images in publishing replacing the hard type of the past. Architecture - Construction plans, exterior sketches - replacing the blueprints and hand drawings of the past.
- Art Computers provide a new medium for artists.
- ☐ Training Flight simulators, computer aided instruction, etc.
- □ Entertainment Movies and games.
- Simulation and modeling Replacing physical modeling and enactment

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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 From Fourier Analysis to Wavelets Jonas Gomes, Luiz Velho, 2015-09-15 This text introduces the basic concepts of function spaces and operators both from the continuous and discrete viewpoints Fourier and Window Fourier Transforms are introduced and used as a guide to arrive at the concept of Wavelet transform The fundamental aspects of multiresolution representation and its importance to function discretization and to the construction of wavelets is also discussed Emphasis is given on ideas and intuition avoiding the heavy computations which are usually involved in the study of wavelets Readers should have a basic knowledge of linear algebra calculus and some familiarity with complex analysis Basic knowledge of signal and image processing is desirable This text originated from a set of notes in Portuguese that the authors wrote for a wavelet course on the Brazilian Mathematical Colloquium in 1997 at IMPA Rio de Janeiro Course Notes ,1995 Virtual Reality Technology Grigore C. Burdea, Philippe Coiffet, 2024-09-18 Thorough overview of virtual reality technology fundamentals and latest advances with coverage of hardware software human factors and applications plus companion Laboratory Manual in Unity 3D The Third Edition of the first comprehensive technical book on the subject of virtual reality Virtual Reality Technology provides updated and expanded coverage of VR technology including where it originated how it has evolved and where it is going Its primary objective is to be a complete up to date textbook as well as a source of information on a rapidly developing field of science and technology with broad societal impact The two highly qualified authors cover all of the latest innovations and applications that are making virtual reality more important than ever before Unlike other books on the subject the book also includes a chapter on Human Factors which are very important in designing technology around the human user Virtual Reality Technology provides Instructors with a website accessible Laboratory Manual using the Unity 3D game engine and programming language Unity 3D is the preferred VR language these days and will prepare the student for the VR gaming and mobile applications industry For universities Unity 3D is cost effective as its student license is freely available With comprehensive coverage of the subject Virtual Reality Technology discusses sample topics such as Input and output interfaces including holographic displays foveated head mounted displays neural interfaces haptic and olfactory feedback Computing architecture with emphasis on the rendering pipeline the graphics processing unit and distributed edge rendering Object modeling including physical and behavioral aspects Artificial Intelligence controlled characters and model

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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 Information Technology Questions and Answers PDF Arshad Igbal, The Class 7 12 Information Technology Quiz Questions and Answers PDF Information Technolog Competitive Exam Questions Chapter 1 23 Practice Tests Grade 7 12 IT Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved guestions Information Technology Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Information Technology Quiz PDF book helps to practice test questions from exam prep notes The Information Technolog Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Information Technology Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Application software packages basic computer organization Boolean algebra business data processing classifications of computers computer arithmetic computer codes computer languages computer software computer types and capabilities data communication and computer networks evolution of computing input output devices internet introduction to computers introduction to computing number systems operating systems planning computer program processor and memory secondary storage devices system implementation and operation web structure and evolution tests for college and university revision guide Information Technology Interview Questions and Answers PDF Download free eBook's sample covers beginner s solved questions textbook s study notes to practice online tests The Class 7 12 Information Technology Interview Questions Chapter 1 23 PDF book includes CS question papers to review practice tests for exams Information Technology Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam Grade 7 12 Information Technology Questions Bank Chapter 1 23 PDF book covers problem solving exam tests from computer science textbook and practical eBook chapter wise as Chapter 1 Application Software Packages Questions Chapter 2 Basic Computer Organization Questions Chapter 3 Boolean Algebra Questions Chapter 4 Business Data Processing Questions Chapter 5 Classifications of Computers Questions Chapter 6 Computer Arithmetic Questions Chapter 7 Computer Codes Questions Chapter 8 Computer Languages Questions Chapter 9 Computer Software Questions Chapter 10 Computer Types and Capabilities Questions Chapter 11 Data Communication and Computer Networks Questions Chapter 12 Evolution of Computing Questions Chapter 13 Input Output Devices Questions Chapter 14 Internet Questions Chapter 15 Introduction to Computers Questions Chapter 16 Introduction to Computing Questions Chapter 17 Number Systems Questions Chapter 18 Operating Systems Questions Chapter 19 Planning Computer Program Questions Chapter 20 Processor and Memory Questions Chapter 21 Secondary Storage Devices Questions Chapter 22 System Implementation and Operation Questions Chapter 23 Web Structure and

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