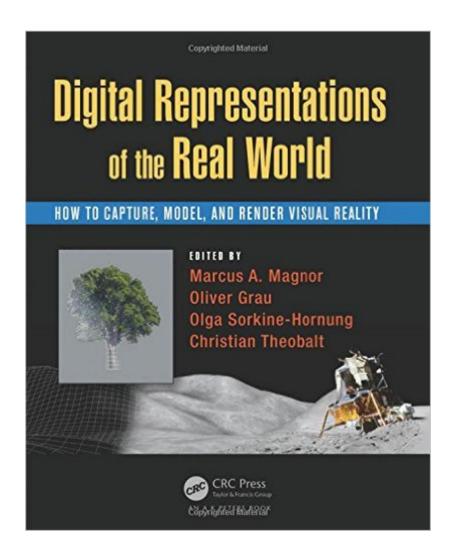
The book was found

Digital Representations Of The Real World: How To Capture, Model, And Render Visual Reality





Synopsis

Create Genuine Visual Realism in Computer Graphics Digital Representations of the Real World: How to Capture, Model, and Render Visual Reality explains how to portray visual worlds with a high degree of realism using the latest video acquisition technology, computer graphics methods, and computer vision algorithms. It explores the integration of new capture modalities, reconstruction approaches, and visual perception into the computer graphics pipeline. Understand the Entire Pipeline from Acquisition, Reconstruction, and Modeling to Realistic Rendering and Applications The book covers sensors for capturing 3D scenes, including regular cameras, wide-angle omnidirectional cameras, active range scanners, and plenoptic (multi-viewpoint) cameras, as well as fundamental algorithms for processing the imagery, such as stereo correspondence and 3D structure and motion recovery. It describes 3D modeling techniques, from generic object models (such as 3D meshes) to more domain-specific models (such as human shape and motion models). The book also discusses how techniques, including image- and video-based rendering, meet speed and realism requirements. Overcome Challenges in Your Own Research Experiments This book is both an accessible introduction to the emerging research of real-world visual computing and a practical guide that shows you how to start implementing frequently encountered methods.

Book Information

Hardcover: 455 pages

Publisher: A K Peters/CRC Press (May 7, 2015)

Language: English

ISBN-10: 1482243814

ISBN-13: 978-1482243819

Product Dimensions: 7.5 x 0.9 x 9.3 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,466,981 in Books (See Top 100 in Books) #78 in Books > Computers & Technology > Graphics & Design > Rendering & Ray Tracing #219 in Books > Computers & Technology > Computer Science > Al & Machine Learning > Machine Theory #250 in Books >

Science & Math > Physics > Light

Download to continue reading...

Digital Representations of the Real World: How to Capture, Model, and Render Visual Reality Getting Started in 3D with Maya: Create a Project from Start to Finish-Model, Texture, Rig, Animate,

and Render in Maya Real Estate: Learn to Succeed the First Time: Real Estate Basics, Home Buying, Real Estate Investment & House Flipping (Real Estate income, investing, Rental Property) Basic CAD for Interior Designers: AutoCAD, Architectural Desktop, and VIZ Render 2007 Manual del retrato fotografico / Capture the Portrait: Como conseguir las mejores fotografias digitales / How to Create Great Digital Photos (Spanish Edition) Virtual Reality - die digitale Welt wird zur Wirklichkeit: Augmented Reality, VR-Brillen, Cardboards, Cyberspace (German Edition) Augmented Reality for Beginners!: Principles & Practices for Augmented Reality & Virtual Computers The Visual Story: Creating the Visual Structure of Film, TV and Digital Media Measuring the Digital World: Using Digital Analytics to Drive Better Digital Experiences (FT Press Analytics) Real Time Systems and Programming Languages: Ada 95, Real-Time Java and Real-Time C/POSIX (3rd Edition) The Best Homemade Kids' Lunches on the Planet: Make Lunches Your Kids Will Love with Over 200 Deliciously Nutritious Lunchbox Ideas - Real Simple, Real Ingredients, Real Quick! Lupus: Real Life, Real Patients, Real Talk Paris Sewers and Sewermen: Realities and Representations The Genome War: How Craig Venter Tried to Capture the Code of Life and Save the World Framing Class: Media Representations of Wealth and Poverty in America Lie Groups, Lie Algebras, and Representations: An Elementary Introduction The Symmetric Group: Representations, Combinatorial Algorithms, and Symmetric Functions (Graduate Texts in Mathematics, Vol. 203) Lie Groups, Lie Algebras, and Representations: An Elementary Introduction (Graduate Texts in Mathematics) Lie Groups: An Approach through Invariants and Representations (Universitext) Representations of Algebraic Groups (Mathematical Surveys and Monographs)

<u>Dmca</u>