



Home About Us Contact Us View Cart My Account FAQ

username

LOGIN

New Account »
Forgot Password?

clouds

GO

Advanced Search »

Ads by Google

SketchUp Pro

3D modeling with access to advanced tools, export formats & support.
sketchup.google.com

3D Laser Scanning

3D Laser Scanning & Digitizing Reverse Engineering
www.photoncapture.com

3D Digital Manufacturing

Rely less on physical models with 3D Digital Prototyping. Learn More.
Autodesk.com/DigitalPro

Become a 3D Animator

Learn 3D Animation on Maya Software With Professional Animators.
www.NYFA.com

Computers Computer Systems

Extensible 3D (X3D) Graphics Clouds for Geographic Information Systems

Authors: [Darren W. Murphy](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

Abstract: This research evaluates the production of three dimensional (3D) **clouds** for geospatial viewing programs such as Google Earth, NASA World Wind, and X3D Earth. This thesis took advantage of iso-standard X3D graphics and X3D Edit in conjunction with manually produced image textures to represent 3D **clouds**. While a 3D geospatial viewing might never completely characterize the current state of the atmosphere, a sufficiently realistic virtual 3D rendering can be created to present current sky coverage given adequate satellite and model data. Various visualization demonstration results are presented that can be rendered and navigated in real time. Further research and development is needed to match a cloud typing model output with a particular method of 3D cloud production. Data-driven adaptation and production of cloud models for web-based delivery is an achievable capability given continued research and development.

Limitations: APPROVED FOR PUBLIC RELEASE

Description: Master's thesis

Pages: 101

Report Date: MAR 2008

Report Number: A079974

Keywords relating to this report:

- ✦ [CLOUDS](#)
- ✦ [GEOGRAPHY](#)
- ✦ [GLOBAL](#)
- ✦ [GRAPHICS](#)
- ✦ [IMAGES](#)
- ✦ [INFORMATION SYSTEMS](#)
- ✦ [INTERNET](#)
- ✦ [OUTPUT](#)
- ✦ [PRODUCTION MODELS](#)
- ✦ [REAL TIME](#)
- ✦ [SKY](#)
- ✦ [TEXTURE](#)
- ✦ [THESES](#)
- ✦ [VIEWERS](#)
- ✦ [WIND](#)

Adobe PDF - \$25.95

Printed Format - \$28.95

ADD TO CART

Please check the box for the format you wish to order.

[Shipping Terms](#)
[About Electronic Delivery](#)

[Email This Abstract](#)

[« Back to search](#)

[Home](#) | [About Us](#) | [Contact Us](#) | [View Cart](#) | [Customer Service](#) | [Shipping Terms](#) | [Advanced Search](#) | [Privacy Policy](#) | [Restrictions on PDF Usage](#)

© 2001-2008 Storming Media LLC. All rights reserved.