Real-Time Massive Model Rendering (Synthesis Lectures on Computer Graphics and Animation)

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出版者:Morgan and Claypool Publishers

出版时间:2008-08-01

装帧:Paperback

isbn:9781598297928

Interactive display and visualization of large geometric and textured models is

becoming a fundamental capability. There are numerous application areas, including games, movies, CAD, virtual prototyping, and scientific visualization. One of observations about geometric models used in interactive applications is that their model complexity continues to increase because of fundamental advances in 3D modeling, simulation, and data capture technologies. As computing power increases, users take advantage of the algorithmic advances and generate even more complex models and data sets. Therefore, there are many cases where we are required to visualize massive models that consist of hundreds of millions of triangles and, even, billions of triangles. However, interactive visualization and handling of such massive models still remains a challenge in computer graphics and visualization. In this monograph we discuss various techniques that enable interactive visualization of massive models. These techniques include visibility computation, simplification, levels-of-detail, and cache-coherent data management. We believe that the combinations of these techniques can make it possible to interactively visualize massive models in commodity hardware.

作者介绍:

目录:

[Real-Time Massive Model Rendering (Synthesis Lectures on Computer Graphics and Animation)_下载链接1_](#)

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