Abstract

The Multiresolution visualization and interactive of three-dimensional mesh becomes a very active topic in recent years, which makes a state of art rich that it devoted this article. With the rapid development has seen computer graphics, three-dimensional objects become widely used in daily life. Given the large size of the mesh, it becomes very difficult to load them all into memory and transmit them on the internet. The segmentation techniques and multiresolution compression are used to reply these requirements. Indeed, in this paper, it proposed a new approach to multiresolution visualization based on a combination of segmentation and multiresolution mesh compression. For this, it proposed a new segmentation method that benefits the organization of faces of the mesh followed by a progressive local compression of regions of mesh to ensure the refinement local of the three-dimensional object.

References

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Interactive Multiresolution Visualization of 3D Mesh

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Interactive Multiresolution Visualization of 3D Mesh

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Index Terms

- Computer Science
- Image Processing

Keywords

- 3D mesh
- Interactive visualization
- 3D segmentation
- Multiresolution compression
- Refinement local
- Selective visualization