

Visualization – Exercise Sheet 9

Task 1 (surface vis + volume vis): Explain the difference between direct and indirect volume rendering and list application areas of direct and indirect volume rendering

Task 2 (surface vis): What are the advantages and disadvantages of using isosurfaces?

Task 3 (surface vis): Mention three approaches to enhance generated isosurfaces and explain one of them in detail.

Task 4 (volume vis): Explain how a transfer function is interpolated and applied.

Task 5 (volume vis): What are factors influencing the speed of direct volume rendering? Discuss possible acceleration strategies.