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CS 6900

Dr. Edwards Presentation

1. What are the major research areas of the presenter?
    a. Visualization, Geometry, Simulation, Education
2. List the names of the projects that the presenter's research group did in the pastor has been doing recently.Among these projects, which project is the most appealing to you and which project is the least appealing to you? Why?
    a. Physics Simulation, Missile Simulation Visualization, Geometric Modeling, Computer Science Education
    b. The Physics Simulations was based around 2 magnets and how they interacted with each other. I thought this was really interesting. Magnets have always been interesting to me and seeing the paths that come from seemingly chaotic motion.
    c. Computer Science Education was interesting to see the end results and the correlations that came from gathering all of that information. From my point of view it seems like there was a lot of gathering data and data manipulation. That aspect of this project did not appeal to me as much. Seeing all of the correlations was really interesting and that might be enough to keep my interest.
3. List two researchers in the other universities who has the same research interests as the presenter.
    a. Peter Schroeder from Caltech
    b. Dr. Les A Piegl from the University of Southern Florida
4. Summarize two most interesting research projects from each of the two researchers.
    a. Peter Schoeder has been working on simulating bubble rings underwater. There is a certain phenomenon when two bubbles combine with each other. His research was based on creating equations that represented the combination of these bubbles and using that equation to simulate the same interaction in animation.
    b. Dr. Les A Piegl is doing research in the area a geometric modeling. Specifically he is researching in the area of 3D printing. He is solving the issue of slicing a 3D model based on a point cloud model of the precise geometry.