Visual Computing Forum

http://vis.UiB.no/vcf/



VCF Seminar with two talks

Friday, 19th of October, from 15:15

Thormøhlens gate 55, Stort auditorium, (Høyteknologisenteret, second floor, rom 209M3)

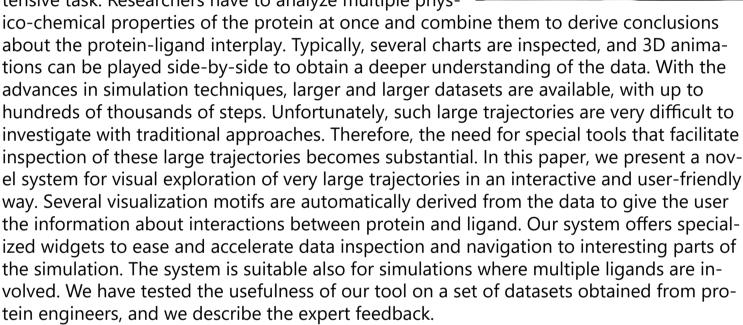
Visualization of large molecular trajectories

Pere-Pau Vázquez

Associate Professor @ Universitat Politècnica de Catalunya in Barcelona

Abstract

The analysis of protein-ligand interactions is a time-intensive task. Researchers have to analyze multiple phys-





Let's make computer graphics great again!

Daniel Sýkora Associate Professor

Associate Professor

@ Czech Technical University in Prague

Abstract

Back in 1995, Ed Catmull and others launched a new era of computer-generated animated movies that quickly became mainstream and almost entirely replaced traditional hand-drawn animation. After more than two decades of constant development, algorithms and tools used in the creation process became mature and nowadays, the audience enjoys perfectly polished 3D visuals containing pho-

to-realistic lighting effects and physically accurate simulations. One can assume this as a great success of computer graphics. However, the key users of CG, i.e., the artists, started to observe that the visual style they continue producing is becoming a bit predictable and that they foresee an issue in the future as the audience eagerly seeks for fresh new visual experiences. They noted that an essential feature which is missing in current computer-generated production is the uniqueness of visual style. Although creative freedom and expressiveness were typical for traditional animation, these desirable characteristics almost disappeared with the transition to 3D computer graphics. In theory, the artists still have full freedom and may create artwork without any limitations, however, in 3D this becomes hugely labor intensive and prohibitively expensive. This fact opens up a grand challenge for computer graphics researcher: is it possible to preserve unique artistic style while keeping the production time and cost-effective?