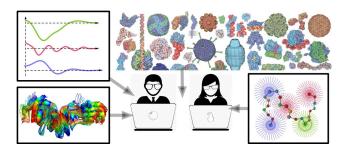
Joint Integrative Computational Biology workshop and CAPRI Meeting



Contribution ID: 11 Type: Talk

VTX: High-performance molecular structure and dynamics visualization

Monday, 12 February 2024 14:55 (25 minutes)

Molecular visualization is a critical task usually performed by structural biologists and bioinformaticians to aid three processes that are essential in science and fundamental to understand structural molecular biology: synthesis, analysis and communication [1].

Here we present VTX, a molecular visualization software that includes a real-time high-performance molecular graphics engine dedicated to the visualization of the structure and dynamics of massive molecular systems. VTX disposes of an interactive camera system controllable via the keyboard and/or mouse that includes different modes: 1. a classical trackball mode where the camera revolves around a fixed focus point and 2. a first-person free-fly navigation mode where the user fully controls the movement of the camera. VTX includes an intuitive and highly usable graphical user interface and tools designed for expert and non-expert users. It is free for non-commercial use at http://vtx.drugdesign.fr

[1] Olson, AJ. Perspectives on structural molecular biology visualization: from past to present. J Mol Biol (2018); 430(21): 3997–4012.

Submitting to:

Integrative Computational Biology workshop

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