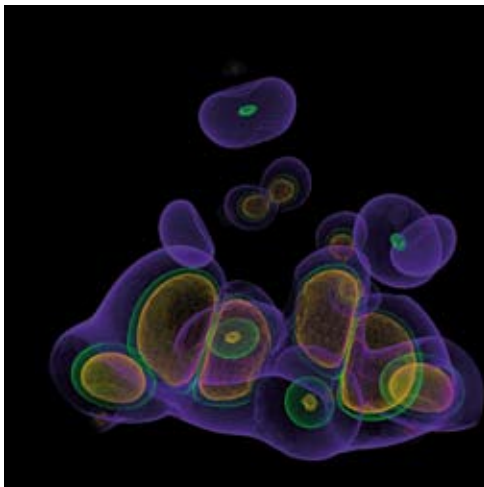


KEYWORDS

- » Visualization
- » Image Processing



VISUALIZATION AND IMAGE PROCESSING

Visualization transforms digital data into images representing information about the data. The data stems usually from analysis results of images or from simulations. Since imaging and simulation gain increasing interest in biotechnology and biomedicine, visualization receives increasing interest. Image processing transforms images with the goal of supporting human vision or automatic visual analysis. Our group does basic research in the area and is currently investigating cooperations with BBZ partners. Our group works in the whole area with a strong interest in applications. We work on the following topics:

1. Automatic volume rendering of biomolecules
2. Analysis and visualization of MRI data
3. Visualization of protein folding simulations
4. Visualization of dynamic networks (e.g. barrier trees of fitness landscapes)
5. Visualization of tumor growth simulations
6. Image processing of cell cultures

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