

Image Analysis and -Visualization for Biomedical Applications

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Nowadays, a wealth of image data is generated in biology and associated sciences, which requires expert knowledge for analysis and visualization. The INCIDE center (Interdisciplinary Center for Interactive Data Analysis, Modelling and Visual Exploration) at the University of Konstanz provides and develops algorithms for automated analysis and for interactive exploration of complex scientific data repositories comprising microscopy images and high-throughput screening data.

Since analysis and visualization have become a real bottleneck in biological sciences, this data provides interesting and challenging research questions from a computer science point of view. In this talk, a selection of interdisciplinary projects completed in INCIDE is presented.