Date: May 16th, 2008, 11[30]

Location: conference room, VilVite center, http://www.vilvite.no/

Speaker: Prof. M. Eduard Gröller, Vienna University of Technology, Austria

Title: LiveSync: An Interaction Metaphor for Knowledge-Based Navigation in Medical Visualization

Abstract:
The talks starts with a short overview on current research projects of our group in medical visualization. The major part of the presentation deals with LiveSync, a new concept to automatically synchronize 2D slice views and 3D volumetric views of medical data sets. Through intuitive picking actions on the 2D slice, the users define the anatomical structures they are interested in. The 3D volumetric view is updated automatically with the goal that the users are provided with expressive result images. To achieve this live synchronization we use a minimal set of derived information without the need for segmented data sets or data-specific pre-computations. The components we consider are the picked point, slice view zoom, patient orientation, viewpoint history, local object shape and visibility. Several extensions to the basic system are presented. LiveSync provides the physician with synchronized views which help to gain deeper insight into the medical data with minimal user interaction.

URL: http://www.cg.tuwien.ac.at/staff/EduardGroeller.html