Automatic View Placement in 3D toward Hierarchical Non-linear Presentations

Moving from the concept of discrete sequences of 2D slides towards smooth 3D multimodal hierarchical presentations promises many improvements in quality and effectiveness of presentations. On the other hand, such a move poses many difficulties, one of which is how to arrange content in a 3D space. This task becomes further complicated when the story-graph of the presentation is evolving and is more complex than a single linear story-path. In this work, we propose a framework for automatically solving the task of 3D content placement, which is based on views – 3D replacement for slides. We also exemplify our proposed approach with two spatial layouts for 3D non-linear presentations: "nested spheres" and a 'building', as well as algorithms that automatically create these layouts from an abstract hierarchical story-graph.

The lecture will be held on Sunday, 05.08.2018, at 13:30, Taub 337