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论文

基于Zooming-Panning模式的可视化信息浏览技术的研究

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摘要：

对目前已有的多种浏览技术作了深入细致的研究和分析。针对Zooming　Panning技术在具体的技术实现上不够全面，既不能保证可视化表示的结构具有一致性，也不能使可视化表示具有良好的显示效果这一情况，依据几何光学的有关原理，实现了一个能够对可视化表示动态跟踪调节的跟随因子，用于补充该技术在实现上的不足，并同时把该技术提出的两个标准扩充为三个，形成的结果称为基于自约束路径的Zooming　Panning浏览技术。实践证明，基于自约束路径的Zooming　Panning技术具有良好的浏览效果。

关键词： 可视化信息浏览　跟随因子　自约束路径

Research on techniques for browsing visualized information based on Zooming-Panning mode

Abstract:

The main ideas, the operating ways and the effects of some existing techniques were presented and analyzed in detail. According to it, some suitable background information was offered to the focus of views, and also a good form of visualized show was taken to meet the need of people who scoop information. However, the concrete realization techniques were insufficient. It could neither make the structure of the visualized show consistent nor display a good effect. Aiming at the statements above, a following　element was created to make up for shortages of this technique in the paper. Its concept and implementing formula were given on the theory of geometric optics. We also extended two standards that were mentioned in this technique, and accordingly a new technique named Zooming　Panning navigation images based on Automatic　control route was given.

Keywords: Browsing visualized information　a following-element　Automatic-control route

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