



Virtual Reality Techniques for 3D Data-Warehouse Exploration

Submitted by Paul Richard on Fri, 05/12/2017 - 16:31

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| Titre | Virtual Reality Techniques for 3D Data-Warehouse Exploration |
| Type de publication | Communication |
| Type | Communication avec actes dans un congrès |
| Année | 2017 |
| Langue | Anglais |
| Date du colloque | 27/02-01/03 2017 |
| Titre du colloque | 1st International Conference on Human-Computer Interaction: Theory and Application (HUCAPP'17) |
| Titre des actes ou de la revue | Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 2: HUCAPP |
| Pagination | 75-83 |
| Auteur | Hamdi, Hamza [1], Verhulst, Eulalie [2], Richard, Paul [3] |
| Pays | Portugal |
| Editeur | SciTePress |
| Ville | Porto |
| ISBN | 978-989-758-229-5 |
| Mots-clés | Data Warehouse [4], human performance [5], Interaction Techniques [6], Navigation [7], Virtual Environments [8] |
| Résumé en anglais | <p>This paper focuses on the evaluation of virtual reality (VR) interaction techniques for exploration of data warehouse (DW). The experimental DW involves hierarchical levels and contains information about customers profiles and related purchase items. A user study has been carried out to compare two navigation and selection techniques. Sixteen volunteers were instructed to explore the DW and look for information using the interaction techniques, involving either a single Wiimote™ (monomanual) or both Wiimote™ and Nunchuck™ (bimanual). Results indicated that the bimanual interaction technique is more efficient in terms of speed and error rate. Moreover, most of the participants preferred the bimanual interaction technique and found it more appropriate for the exploration task. We also observed that males were faster and made less errors than females for both interaction techniques.</p> |
| URL de la notice | http://okina.univ-angers.fr/publications/ua15930 [9] |
| DOI | 10.5220/0006130400750083 [10] |
| Lien vers le document en ligne | http://www.scitepress.org/DigitalLibrary/PublicationsDetail.aspx?ID=z5P4... [11] |

Liens

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- [10] <http://dx.doi.org/10.5220/0006130400750083>
- [11] <http://www.scitepress.org/DigitalLibrary/PublicationsDetail.aspx?ID=z5P4vjAZwp4=&t=1>

Publié sur *Okina* (<http://okina.univ-angers.fr>)