Abstract

Different elements of Web-GIS usability have different impact during design and usability evaluation of the Web-GIS websites. It is important therefore to prioritize Web-GIS usability elements based on their impact on usability. The techniques used for prioritizing usability elements of Web-GIS are important to developers of Web-GIS systems during design and usability evaluation. Existing techniques used to prioritize elements of usability were compared, with a view of proposing appropriate method for prioritizing Web-GIS usability elements. The research compared the compurank method—which is based on an algorithm, scenario-based ranking method (SBRM) and the Multicriteria user satisfaction analysis (MUSA). The MUSA method was found to be the most appropriate method that developers can use to prioritize Web-GIS usability elements because it involves collecting user needs directly from the users.

References

1. N. Kong, T. Zhang and I. Stonebraker, "Common Metrics for Web-based Mapping"
18. S. N. Mwendia, P. Waiganjo and R. Oboko, "Dynamic Heuristics: Greedy Search: A

Index Terms

Computer Science  Information Sciences

Keywords

Web-GIS Prioritization Techniques, Ranking, Usability Elements, and Functionality