Lu Cao

Designing Human-Centered Hybrid Decision Support Systems

Consequently, organizations need more advanced DSSs that take account of two aspects: 1) they are designed with a human-centered intent; and 2) these DSSs should better utilize the complementary capabilities of humans and machines. In this study, such DSSs are called human-centered hybrid decision support systems (HC-HDSSs).

The purpose of this dissertation is to contribute design knowledge supporting the development of HC-HDSSs. To achieve results, the action design research method has been used to build, intervene in, and evaluate the designed HC-HDSSs in three iterations. Two main results are presented: 1) a prototype of HC-HDSSs, which serves as an example of HC-HDSSs; and 2) five design principles concerning how HC-HDSSs should be developed.



Lu Cao
Department of Applied Information Technology
Division of Informatics

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DEPARTMENT OF APPLIED INFORMATION TECHNOLOGY

