Interactive Computer Support for Remote

Design Teams: A New Approach

by

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Submitted to the Department of Electrical Engineering and Computer Science in partial fulfillment of the requirements for the Degree of

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Abstract

The desire to facilitate interaction among geographically distributed workgroups has underscored the need for better computer-mediated communications tools. Development of effective collaboration tools which permit remote, synchronous interaction is a challenging task, especially in applications where real-time graphics displays are necessary. In this work, a shell technique is investigated which gives single-user applications a multi-user interface by linking together multiple workstations. When the shell is in operation, the linked workstations operate identically, thus providing a uniform computer interface for a group of collaborators.

To investigate the technical requirements of a shell-based system, and to characterize the resulting multi-user interface, a prototype system has been developed. One basic design requirement is that the system allow users to interact in the environment of existing application programs, while remaining independent of any particular program. A second requirement is that the resulting system be able to function over low bandwidth communications links, regardless of the amount of graphics output or database changes produced by the system.

Thesis Supervisor: Dr. John G. Kassakian

Title: Professor of Electrical Engineering





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