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Interactive Spaces Towards Collaborative Structuring and Ubiquitous Presentation in Domestic Environments

Kaj Grønbæk, Marianne Petersen

Abstract

This paper analyses the use of media and material in private homes based on empirical studies in a project on designing interactive domestic environments. Based on the analyses we propose a Domestic Hypermedia infrastructure (DoHM) combining spatial, context-aware and physical hypermedia to support collaborative structuring and ubiquitous presentation of materials in private homes. With DoHM we propose establishing new relationship between digital and physical hyperspaces, folding hyperspaces into the physical space of the household. Thus we strive to combine the qualities of physical domestic materials and spaces with the flexibility and dynamics of digital hyperspaces. We propose a variety of new ubiquitous home appliances called MediaWall, MediaTable, MediaTray and MediaPort, which address these issues.

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