

Improving Spatial Interactions with Novel Ubiquitous Interfaces

Initiative: Lichtenberg - Professuren

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Laufzeit: 5 Jahre

Projekt-Website: <https://hci.uni-bremen.de>

Ubiquitous computing has a fundamental impact on the way humans will perceive and interact with their world and their very conceptions of the boundary between the digital and physical. Therefore, researchers from across disciplines should consider how they can use ubiquitous computing environments to enhance people's physical, relational and emotional experience of the world without compromising their safety and dignity. The goal of the professorship is to develop those ubiquitous computing technologies that demonstrably enhance users' lives by improving their interactions with their environment, particular focusing on the interaction with spatial information. Furthermore, the understanding of the principles of spatial user interactions with novel ubiquitous interfaces will be strived. First, the link between size and capability of novel ubiquitous devices will be broken. Secondly, this will result in novel interfaces and technologies that can be used to better perform spatial interactions. To achieve these goals, the work incorporates mobile projectors, large-scale multi-touch surfaces and sensor technology and applies methods from multi-modal and context-aware computing as well as visual computing to explore concepts for novel ubiquitous interfaces that assist user performing spatial interactions.

Projektbeteiligte

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