1. Record Nr. UNINA9910140852303321

Titolo	2010 9th IEEE International Symposium on Mixed and Augmented Reality
Pubbl/distr/stampa	[Place of publication not identified], : I E E E, 2010
ISBN	9781424493463 1424493463 9781424493456 1424493455
Descrizione fisica	1 online resource (xv [i.e. xix], 319 pages) : illustrations
Disciplina	006.6869
Soggetti	Computer graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	This paper investigates the use of Spatial Augmented Reality in the prototyping of new human-machine interfaces, such as control panels or car dashboards. The prototyping system uses projectors to present the visual appearance of controls onto a mock-up of a product. Finger tracking is employed to allow real-time interactions with the controls. This technology can be used to quickly and inexpensively create and evaluate interface prototypes for devices. In the past, evaluating a prototype involved constructing a physical model of the device with working components such as buttons. We have conducted a user study to compare these two methods of prototyping and to validate the use of spatial augmented reality for rapid iterative interface prototyping. Participants of the study were required to press pairs of buttons in sequence and interaction times were measured. The results indicate that while slower, users can interact naturally with projected control panels.