
TRANSFORM as Adaptive and Dynamic Furniture

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Abstract

TRANSFORM is an exploration of how shape display technology can be integrated into our everyday lives as interactive, shape changing furniture. These interfaces not only serve as traditional computing devices, but also support a variety of physical activities. By creating shapes on demand or by moving objects around, TRANSFORM changes the ergonomics, functionality and aesthetic dimensions of furniture. The video depicts a story with various scenarios of how TRANSFORM shape shifts to support a variety of use cases in the home and in the work environment: It holds and moves objects like fruits, game tokens, office supplies and tablets; creates dividers on demand; and generates interactive sculptures to convey messages and audio.

Author Keywords

Radical Atoms; Shape Display; Furniture

ACM Classification Keywords

H.5.m. Information interfaces and presentation: User Interface