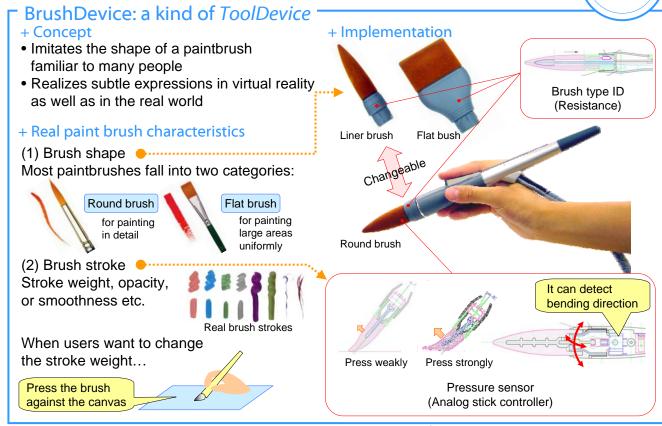
Daichi's artworking: Enjoyable painting and handcrafting with new ToolDevices

Yusuke Takami, Mai Otsuki, Asako Kimura, Fumihisa Shibata, and Hideyuki Tamura (Ritsumeikan Univ.)









(1) Change/Select the brush type (2) Pick a color & add water







Not wet enough
The stroke lacks

smoothness

Demonstrating

nowl









Daichi's artworking:

Enjoyable painting and handcrafting with new ToolDevices

Yusuke Takami, Mai Otsuki, Asako Kimura, Fumihisa Shibata, and Hideyuki Tamura Ritsumeikan University



We introduce a handcrafting application imitating "woodworking" in the real world. In conventional systems with a mouse and a 2D display, 3D digital modeling is not so easy for novices. We solve this problem by using a metaphor of woodworking and providing ToolDevice in the mixed reality space.

Background

- 3D modeling operations are not easy
 - · Complex GUI (menu, icon...)
 - · 2D input (Mouse)
 - 2D output (Monitor)



Approach

- · Imitate handcrafting in the real world
 - · Mixed Reality
 - ToolDevice
- · Firstly, we developed woodworking demo

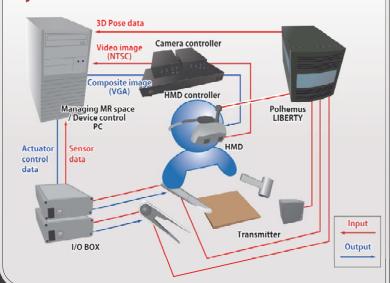


lmage



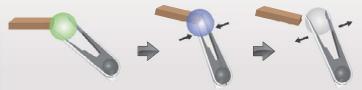
ToolDevice (Tweezers, Knife, Hammer)

System



Interaction

Pick & Move (TweezersDevice)

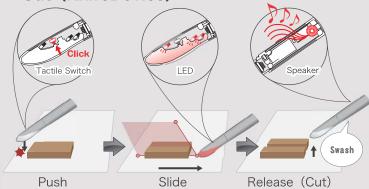


Bring it close to object

Pick & Move

Release

Cut (KnifeDevice)



Join (HammerDevice)



Place Tap (Joined)



Scene of Operations (Pick & Move, Cut, Join)

Artworks

