Tactile Feedback at the Fingertips for Improved Direct Interaction in Immersive Environments

Robert Scheibe 1,2, Mathias Mörning 1, Bernd Fröhlich 2

robert.scheibe@ar-tracking.de  mathias.moehring@volkswagen.de
bernd.froehlich@medien.uni-weimar.de

1 Volkswagen AG, Group Research 2 Bauhaus-Universität Weimar

- Thin Shape Memory Alloy wires wrapped around thimbles
- Wires shortened by electrical current to provide impression on the fingertips
- Used to communicate finger contact with virtual objects
- Application: ergonomics studies
- Feedback matches well grasping actions