Keith Vertanen

Dave House Associate Professor



vertanen@mtu.edu



+1-906-487-2331

Research Interests

- Human-Computer Interaction
- Accessible Computing
- Speech and Language Processing
- Crowdsourcing
- Mobile Interfaces



Links of Interest



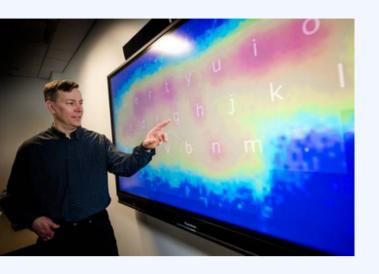
Dr. Vertanan's Website

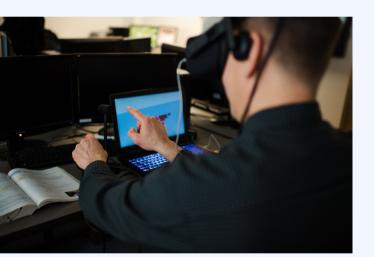


Human-Centered Computing









Research Synopsis

Rich Surface Interaction for Augmented Environments:

exploring how to use flat everyday surfaces for input in augmented and virtual reality.

Improving Mobile Device Input for Users Who are Blind or Low Vision: improving touchscreen and speech input for users who are blind or low vision.

Automatic Speech Recognition using Deep Neural Networks: creating a state-of-the-art speech recognition engine for use in interactive systems for instrumented environments and wearable devices.

Technology Assisted Conversations: how technology can augment our conversations, including for individuals who use Augmentative and Alternative Communication (AAC) devices.

Sensing and Feedback for On-Body Input:

how to appropriate everyday surfaces, including one's own body, as an input device for interactive systems.

Less is More: Investigating Abbreviated Text Input via a Game:

investigating how to improve touchscreen text input by allowing users to abbreviate their input.

