Keith Vertanen

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Research Interests

- Human-Computer Interaction

- Accessible Computing

- Speech and Language Processing

- Crowdsourcing

- Mobile Interfaces

Links of Interest

[Dr. Vertanan's Website](#)

[Human-Centered Computing](#)

[Institute of Computing and Cybersystems](#)

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.

[ICC] Institute of Computing and Cybersystems

For more information

Publications