
The Third Eye: A Shopping Assistant for the Visually Impaired

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Abstract

This video describes HCI work that is part of a multi-university NSF Expedition in Computing “Visual Cortex on Silicon” (CCF 1317560) spanning vision science, computer vision, processor architecture, information retrieval, and human-computer interaction. Our driving application is a smart camera prosthetic enabling people with visual impairment to shop on their own. The video was originally shown during Big Ten television broadcasts in Fall 2016.

Video Credit: BTN LiveBIG**Author Keywords**

Smart camera visual prosthetics.

ACM Classification Keywords

H.5.2 Information interfaces and presentation (e.g., HCI): User Interfaces; I.4 Image Processing and Computer Vision; K.4.2 Computers and Society: Social Issues - Assistive technologies.

General terms: Human Factors; Design