Augmented Reality Ears for the Hearing-Impaired People

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This paper presents an idea of an augmented reality based system helping the hearing-impaired to perceive the speech of people within the surrounding environment. Our approach expects only two small-sized pocketable devices, namely video glasses and a mobile device to detect speaking people and augment the video feed from the glasses with bubbles presenting what the people say identifying the speeches with the people as well. The main contribution of our approach is identifying multiple speakers at a time helping the hearing-impaired perceive their environment and the conversations much more easily.

