Speech Recognition for Context Awareness

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Abstract:

This paper explores how speech recognizers may audit the environment, and more importantly, in which environments this ability can be of use. Speech recognition is generally about recognizing language in a communicative situation of a dialogue, with a speaker and a listener. When using speech recognition for context awareness, we are facing a fundamentally different scenario. A few real-world cases from security, care and commerce illustrates where speech recognition for context awareness could be of use. The examples moreover illustrates the problems associated with using speech recognition for context awareness in different environments. A few conclusions and paths of future research wrap up the paper.