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Abstract

Real-time speech recognition captioning has not progressed much, beyond television broadcast, to other tasks like meetings in the workplace. A number of obstacles prevent this transition, such as proper means to receive and display captions, or on-site shadow speakers costs. More problematic is the insufficient performance of speech recognition for less formal and one-time events. We describe how we developed a mobile platform for remote captioning during trials in several conferences and meetings. We also show that sentence selection based on relative entropy allows training of adequate language models with small amounts of in-domain data, making real-time captioning of an event possible with only a few hours of preparation.

Keywords : Speech recognition, handicapped aids, unsupervised learning