

Abstract: Utterance Verification for POI Item Recognition in Automotive Navigation Application

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Abstract

In this paper, we propose an efficient utterance verification technique to confirm the results of very large vocabulary isolated speech recognition, namely, the N-best-based point-of-interest (POI) item recognition for automotive navigation application. The proposed technique utilizes a combined confidence measure (CM) by incorporating the classical monophone-antimodel-based CM and the N-best-driven triphone-antimodel-based CM. Experimental results showed that the proposed technique provides equal error rates of 12.6% and 13.1% in verifying the 1-best recognition results and the overall 10-best recognition results, respectively, in the 550k Korean POI item-based speech recognition domain.

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