ATREUS: A Speech Recognition Front-end for a Speech Translation System

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This paper describes the continuous speech recognition subsystem "ATREUS" which is used as the speech input stage in the experimental speech translation system "ASURA."
The speech recognition algorithm is SSS-LR/VFS which consists of context-dependent phone models (HMnet), a generalized LR parser, and vector field smoothing for speaker / environment adaptation.

Keywords: continuous speech recognition, context-dependent phone models, LR parser, speaker adaptation, speech translation

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