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Error detection and accuracy estimation in automatic speech recognition using deep bidirectional recurrent neural networks

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Highlights

- Deep bidirectional RNNs (DBRNNs) are applied to ASR error detection and accuracy estimation.
- DBRNNs take longer bidirectional context of input feature vectors into account.
- DBRNNs model highly nonlinear relationships between input feature vectors and output labels.
- DBRNNs greatly outperform CRFs and other structures of neural networks.

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