

Accepted Manuscript

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

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PII: S0167-6393(16)30104-2
DOI: [10.1016/j.specom.2017.02.009](https://doi.org/10.1016/j.specom.2017.02.009)
Reference: SPECOM 2447



To appear in: *Speech Communication*

Received date: 11 May 2016
Revised date: 17 January 2017
Accepted date: 22 February 2017

Please cite this article as: Atsunori Ogawa, Takaaki Hori, Error detection and accuracy estimation in automatic speech recognition using deep bidirectional recurrent neural networks, *Speech Communication* (2017), doi: [10.1016/j.specom.2017.02.009](https://doi.org/10.1016/j.specom.2017.02.009)

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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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