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Convolutional pyramid of bidirectional character sequences for the recognition of handwritten words

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**Highlights**

- Pyramid of bidirectional character sequences (PBCS) representation.
- A novel CNN based approach to map word images to PBCS representations.
- A probabilistic model to transform CNN outputs to lexicon words.
- It achieves a word error rate of 8.83% on the IAM database and 6.22% on the RIEMS database.

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