

From Audio to Music Notation

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Automatic Music Transcription

Problem: Converting music signals into some form of human- or machine-readable music notation, such as western staff notation.

Applications: Music recommendation, interactive music systems, and digital musicology...

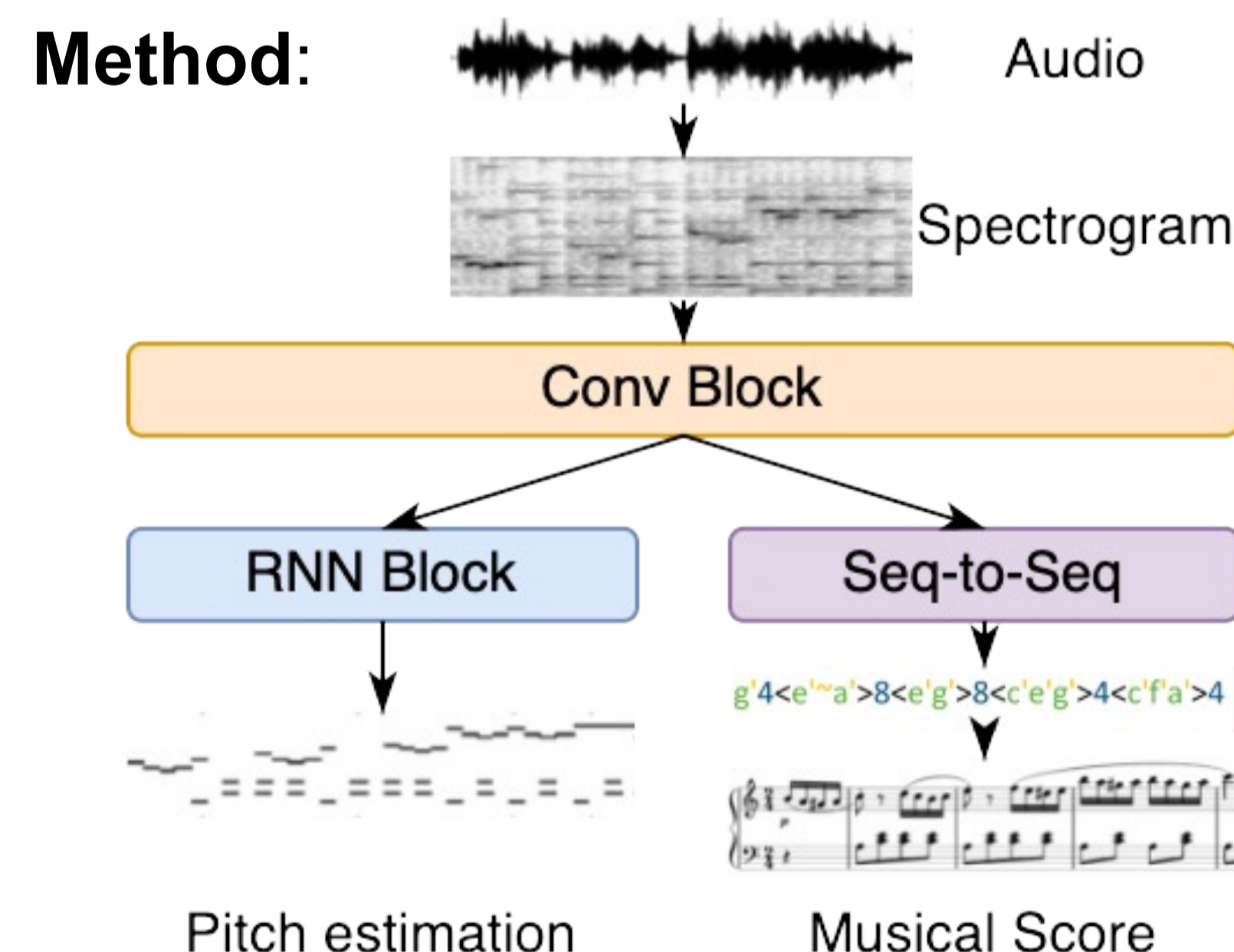
In this poster, We present our work on automatic piano transcription by an end-to-end method and a step-by-step method.

End-to-end method
<ul style="list-style-type: none"> Directly convert music signals into musical scores

Step-by-step method
<ul style="list-style-type: none"> Firstly predict note sequences from music audio, then predict rhythm structure

End-to-end Method Example

Designed for transcribing popular piano music. Achieves an overall accuracy of 88.0% on pitch estimation, and 87.8% on musical score prediction on the MuseSyn dataset.



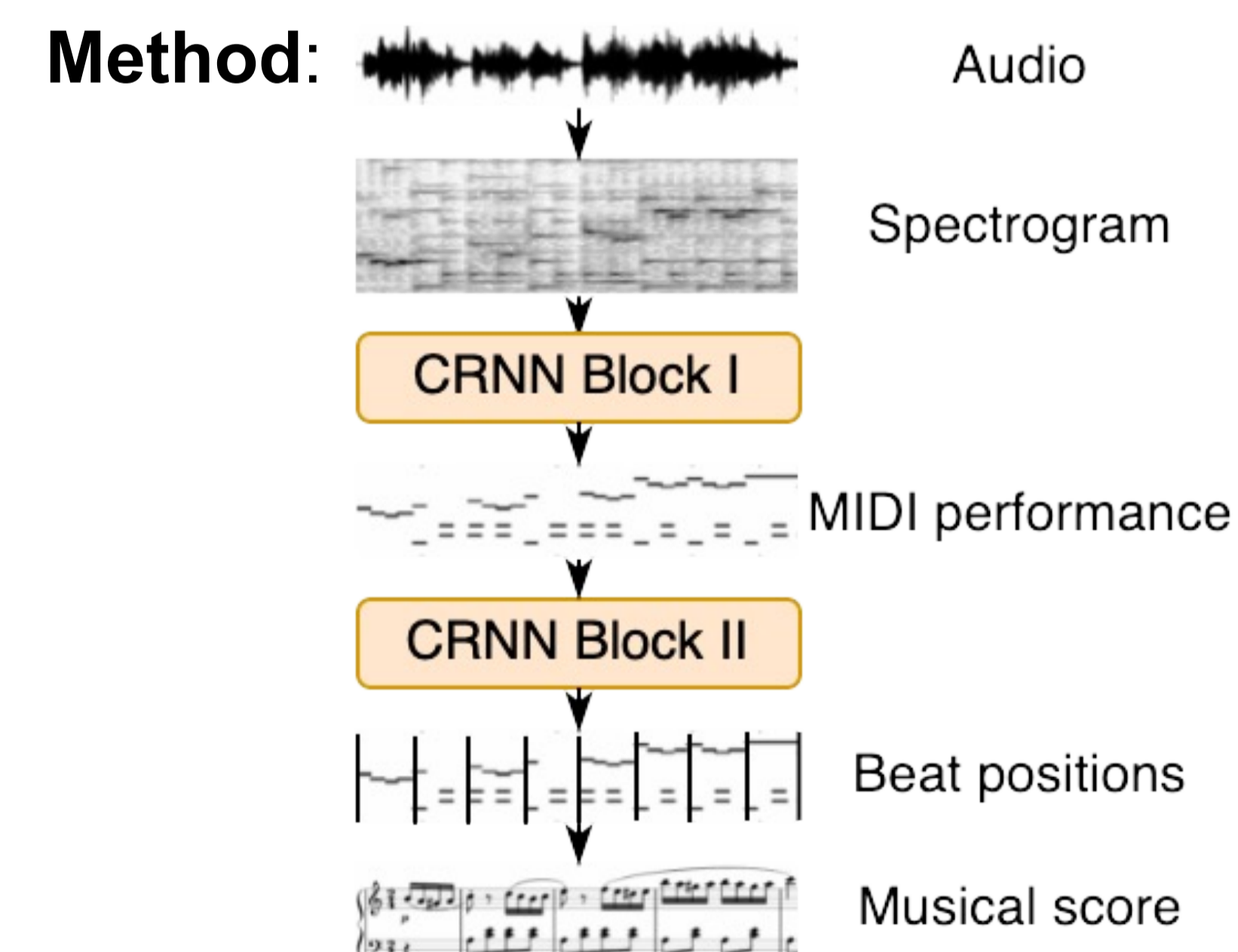
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Step-by-Step Method Example

Designed for transcribing classical piano music. Uses an existing MIDI performance transcription system with 96.7% accuracy on the MAESTRO dataset, and a beat tracking system with 76.7% accuracy on the MAPS test set.



More Information

Scan for more details:

