



AI-Driven Music Transcription

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2025.11.24

Automatic Music Transcription. A Comprehensive Deep Learning Approach.

From to Notes – A Framework for Polyphonic Piano Music

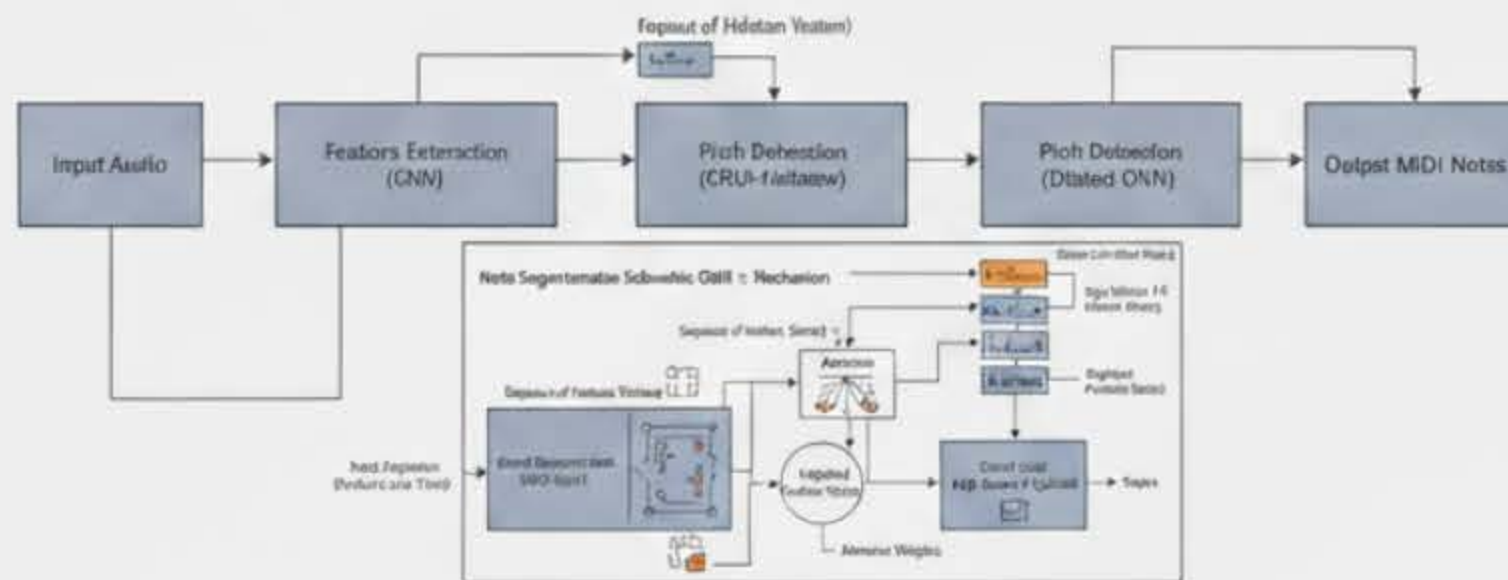
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Prof. _____ YI Ke

System Architecture

1. Introduction & Objectives

- End-to-end AMT
- Deep Learning Focus
- Polyphonic Piano
- Unified Framework

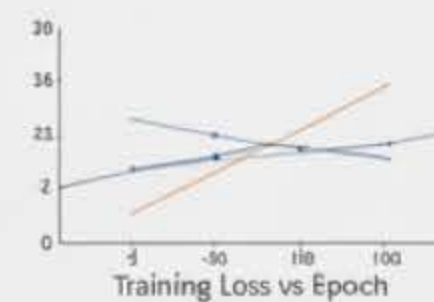


3. Methodology & Data

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3. Methodology & Data

- MAESTRO Dataest
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- Data Augumanation
- Model Training (PyTorch)
- Evaluation Metrics (Precision, Recall)



4. Results Conclusion

- Achieved >90% F1 Score
- Improved >90% F1 Score
- Note Onset/Offset Detection
- Robbаст to Noise
- Future Work: Real-time Implementation

This research presents an AI framework for converting monophonic audio into editable MIDI notation with high accuracy.

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