

AUTOMATIC MUSIC TRANSCRIPTION OF WOODWIND INSTRUMENTS

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Automatic music transcription has been extensively researched in the realm of classical music, yet many contemporary pieces require musicians to include techniques above and beyond what is required in classical music. These techniques, termed extended techniques, remain relatively unstudied for automatic music transcription. This thesis works towards automatically documenting solos of woodwind instruments containing extended techniques. Solos are recorded as wav files and are expressed as musical notes on staff paper. Extended techniques vary from one player to the next, which makes the challenge to create software that is able to document different variations of the same technique. To accommodate the differences, this thesis works towards customizing the transcription software to the individual user. A database is implemented containing previous solos created by the musician and the transcription software uses this information to constantly improve error rates by using previous information to guide the present transcription.