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i. MIDI-Audio Alignment:

Onsets and offsets of all notes, mono- and polyphonic have to be identified in order to guide signal processing algorithms, examine expressive performances or use score audio alignment. For more description see iii.

- ii. Techniques used for MIDI-Audio Alignment: Dynamic Time Warping, Hidden Markov Models
- iii. The difference between Online and Offline Alignment:
 Online alignment is realtime following of solo live-performance creating a responsive accompinement as opposed to the offline alignment which follows a symbol representation, for example a midi version of monaural recording of a polyphonic performance.