

THE BATIK-PLAYS-MOZART CORPUS: LINKING PERFORMANCE TO SCORE TO MUSICOLOGICAL ANNOTATIONS

Patricia Hu and Gerhard Widmer
{firstname}.{lastname}@jku.at

Institute of Computational Perception, Johannes Kepler University Linz, Austria



The Batik-plays-Mozart Corpus

performance MIDI

score musicXML

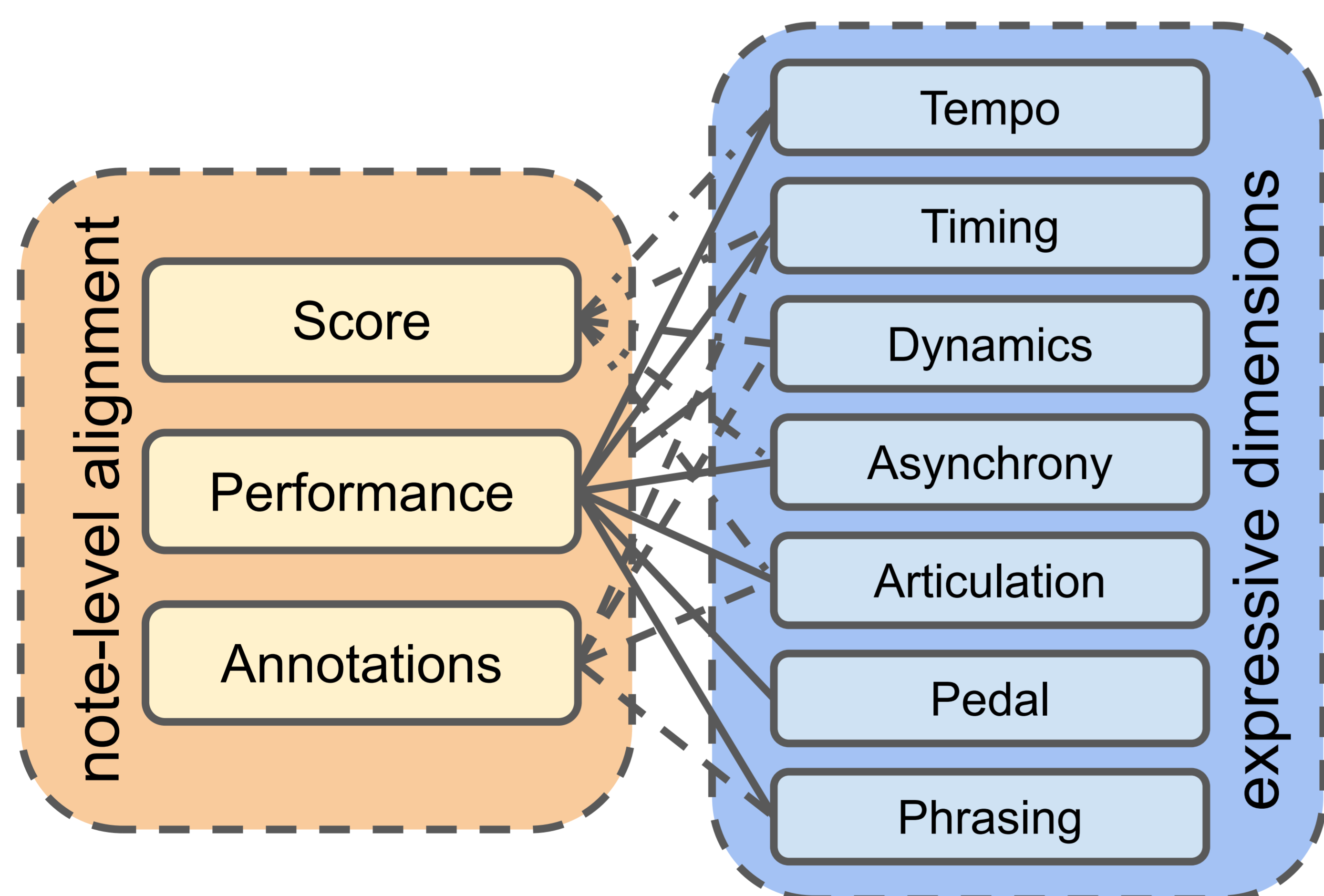
harmony, cadence, phrase annotations

Excerpt from KV331, 1. movement

- ❖ **Corpus:**
 - 12 aligned Solo Piano Sonatas by W.A.Mozart
 - 36 movements, ~100k performed notes amounting to almost 4 hours of music
- ❖ **Data origins:**
 - **Performances:** expert performances by Viennese pianist Roland Batik
 - **Score and annotations:** Expert-annotated scores published in [1]
- ❖ **matchfile alignment format [2]:**
 - lossless performance encoding
 - essential score information
 - **strict note-level score-performance alignment:** each performance and score note is either *matched*, *inserted* or *deleted*

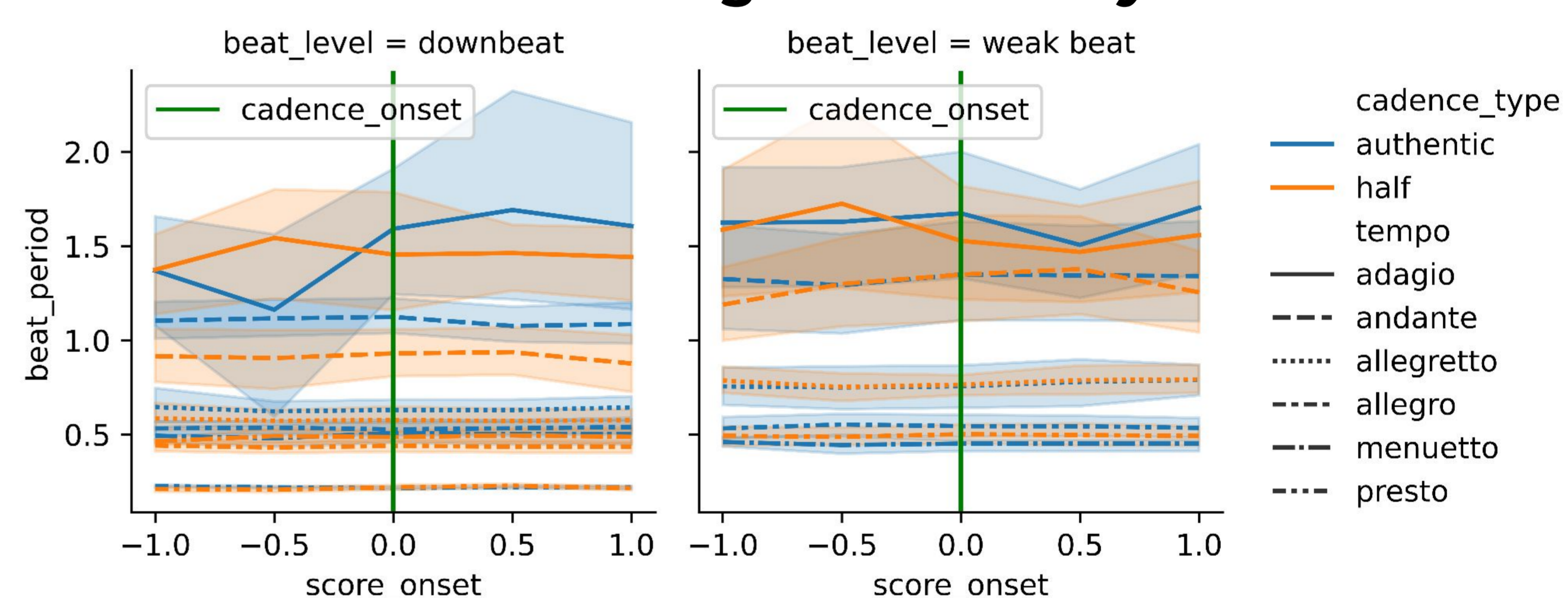
Motivation: Expressive performance analysis from symbolic music

- ❖ Using **note-level performance-score-alignments** we can **map expressive intentions to underlying structural score features**



Demonstration: Local timing strategies at different cadence types

- ❖ **Question: How much do the local timing strategies differ depending on the type of cadence and their degree of finality?**



- ❖ Local tempo **differences diminish with increasing global tempo** for both downbeat and weak beat cadences
- ❖ Let's look at the **adagio tempo class:**
 - *accelarando* before half cadences independent of beat level
 - **strong ritartando before authentic cadences on a downbeat**, continuing somewhat after the resolution – missing equivalent pattern for authentic cadences on weak beats



Find the dataset at:

https://github.com/huispaty/batik_plays_mozart

[1] Hentschel, J., Neuwirth, M. and Rohrmeier, M., 2021. The Annotated Mozart Sonatas: Score, Harmony, and Cadence. Transactions of the International Society for Music Information Retrieval, 4(1), pp.67–80.

[2] Foscarin, E. Karystinaios, S. D. Peter, C. Cancino-Chacón, M. Grachten, and G. Widmer, "The matchfile format: Encoding Alignments between Scores and Performances," in Proceedings of the Music Encoding Conference (MEC), 2022.