Kevin Page

University of Oxford, United Kingdom

Christine Siegert

Beethoven-Haus Bonn, Germany

Johannes Kepper

Paderborn University, Germany

Andrew Hankinson

RISM Digital Center, Switzerland

David Lewis

University of Oxford, United Kingdom











- 1. Motivations (CS)
- 2. Project Approach (KP)

Motivation - Domestic Music Arrangements in the 19th Century









Pierre-Auguste Renoir, https://commons.wikimedia.org/w/index.php?curid=21857233

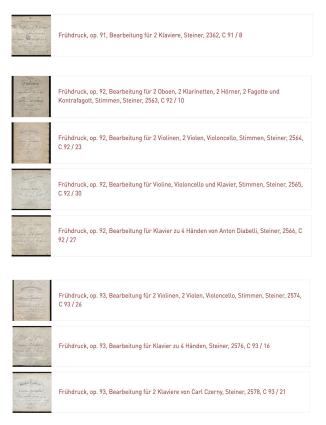
Two perspectives:

- 1) A study of Steiner editions of Beethoven's 7th and 8th Symphonies and Wellingtons Sieg will make a detailed comparison between arrangements, systematically identifying a core common to multiple versions, and asking if this reflects the stated values of the publisher.
- 2) A survey for patterns of arrangement across a larger sample of lesser-known and often poorly catalogued scores, collating emergent indicators of arrangers' motivations within a narrative of the domestic market the music industry of its day.



Motivation - A study of Beethoven arrangements using digital encodings

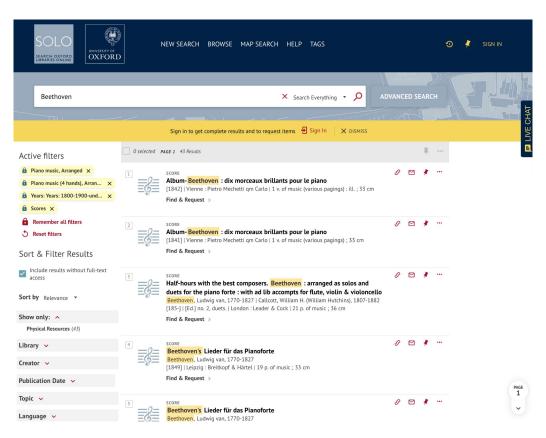
Sigmund Anton Steiner



Two perspectives:

- 1) A study of Steiner editions of Beethoven's 7th and 8th Symphonies and Wellingtons Sieg will make a detailed comparison between arrangements, systematically identifying a core common to multiple versions, and asking if this reflects the stated values of the publisher.
- 2) A survey for patterns of arrangement across a larger sample of lesser-known and often poorly catalogued scores, collating emergent indicators of arrangers' motivations within a narrative of the domestic market the music industry of its day.

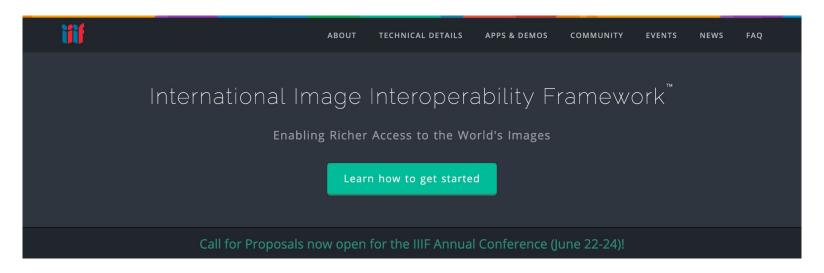
Motivation - A study of musicological patterns in domestic arrangements



- Motivations
- 2. Project Approach



Contributing technologies - IIIF



https://iiif.io

Interoperability: IIIF offers a standardized way to access image and AV resources

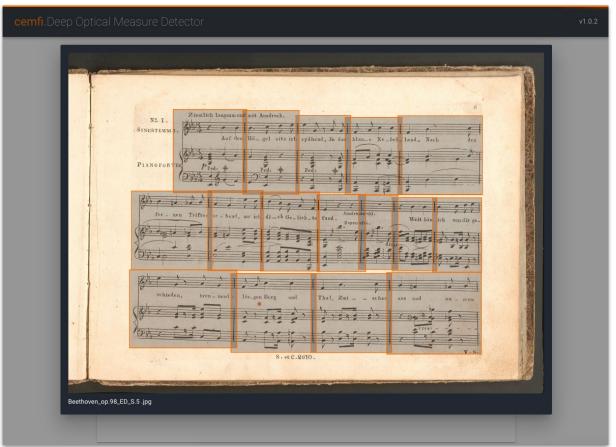
KP

Contributing technologies - Edirom

Measure Detector

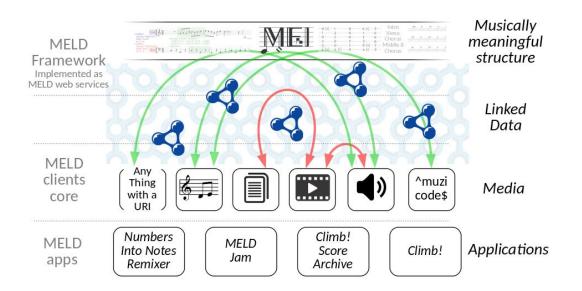
Tensorflow Python, Javascript

MEI





Contributing technologies - Music Encoding and Linked Data (MELD)



Annotations: a framework for combining annotations of multiple formats of music-related material

- MELD provides the framework for annotations which reference multiple sources.
- We will extend MELD with the ontological modelling necessary to represent complex musicological relationships in the data.



Contributing technologies - MELD





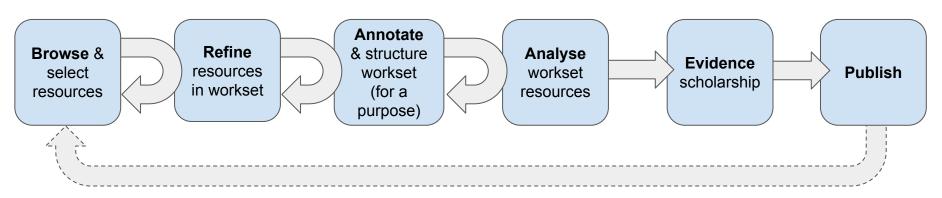
Authoring annotations: the Delius quartet app is a very simplistic annotation authoring tool

- Other, more sophisticated, MELD apps are presentational only (e.g. Lohengrin TimeMachine).
- We will create an authoring environment to gather annotations relating to domestic music arrangement, compatible with MELD.



Goals - the prototype digital environment

Possible sequence of interactions...



...which, for example, might realised as...

Browse
catalogue

Browse IIIF images of scores

Annotate measures for 'gestures'

OMR and manual correction

Article on gestures supported by annotated data Digital companion exploring gestures



Goals - what will we have at the end of the project?

- The two musicology studies:
 - A study of Beethoven arrangements using digital music encodings.
 - A study of musicological patterns in domestic arrangements
- A prototype digital environment for musicological exploration of digital material
- Innovative digital methodologies supporting musicological studies

https://domestic-beethoven.eu/

Thank you - Questions?

Beethoven in the House is gratefully supported by a UK-Germany funding initiative: in the UK by the Arts and Humanities Research Council (AHRC), project reference AH/T01279X/1; and in Germany by the Deutsche Forschungsgemeinschaft (DFG), project reference 429039809.

We also thank project team members Christin Heitmann, Mark Saccomano, and Elisabete Shibata for their ongoing contributions to project discussion and research.