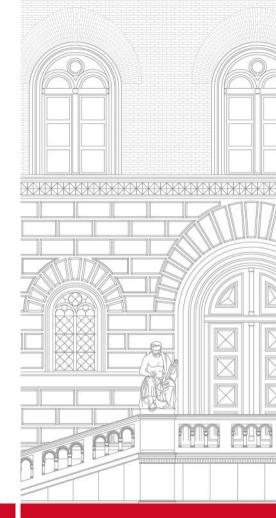


musiconn.scoresearch

A Content-Based Search Application for Digitized Music Prints based on OMR



Agenda

- 1. Project setting
- 2. Test of OMR software
- 3. Generating OMR data for a subset of BSB's digitized sheet music
- 4. A prototypical application for searching in the OMR data
- 5. Live demonstration



1. Project setting

Project name: Fachinformationsdienst Musikwissenschaft (Specialised Information Service Musicology), musiconn



Project sponsor: Deutsche Forschungsgemeinschaft (German Research Foundation)





Project partners:

- Bavarian State Library
- Saxon State and University Library Dresden



Information for Excellence



Project phases:

- First funding phase: 2014 2016
- Second funding phase: 2017 2019



Work packages of musiconn-project:

- Acquisition of sheet music, music books, and music journals (in print and electronic format)
- Publication server for open access publications (musiconn.publish)
- New web database for the data of RIdIM Germany
- RISM:
 - improved integration of music prints in RISM
 - further development of RISM-OPAC



Work packages of musiconn-project (cont.):

- Search tool for music performance ephemera
- Long-time archiving of musicological websites (see my talk at IAML2018 in Leipzig)
- Optical music recognition (musiconn.scoresearch)



musiconn advisory boards:

- National advisory board with 14 members from the German musicology and music library community, see <u>https://www.vifamusik.de/en/about-us/</u>
- International advisory board:
 - David Day, Brigham Young University
 - Rupert Ridgewell, British Library
 - Darwin Scott, Princeton University



2. Test of OMR software

The following OMR programs have been tested:

- Audiveris 4.3
- Audiveris 5.0 (github version on April 4, 2017)
- Capella Scan 8.0-22
- SharpEye 2.68
- SmartScore X2 Professional Edition 10.5.8

3. Generating OMR data for a subset of the BSB's digitized sheet music

Complete editions of:

- Ludwig van Beethoven's works (Breitkopf&Härtel, 1862 1865)
- Georg Friedrich Händel's works (ed. 1858 1902 by Friedrich Chrysander)
- Felix Mendelssohn Bartholdy's works (ed. 1874 1877 by Julius Rietz)
- Franz Liszt's works (ed. 1907 1936 by Carl Alexander)

Complete editions of: (cont.)

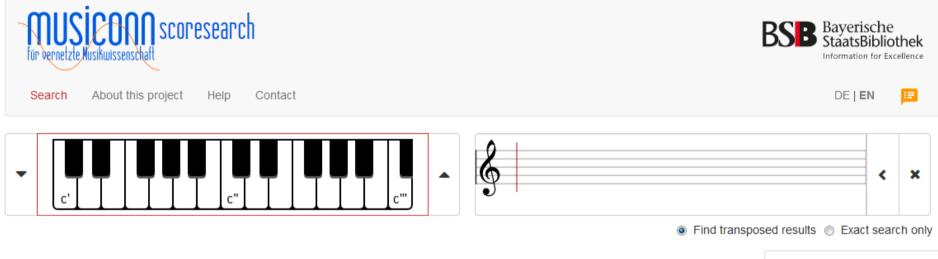
- Franz Liszt's works (ed. 1907 1936 by Carl Alexander)
- Franz Schubert's works (Breitkopf&Härtel, 1884 1897)
- Robert Schumann's works (ed. 1879 1893 by Clara Schumann)
- Denkmäler Deutscher Tonkunst (monuments of German musical art), 1st series (1892 – 1931) and 2nd series (1900 – 1931)

- Ca. 70.000 pages of sheet music
- No manual correction of the OMR data
- Removing polyphony to reduce the complexity of index and search process



Fig. 1. Sample OMR output from Händel's "Der Messias: Oratorium"

4. A prototypical application for searching in the OMR data



URL: https://scoresearch.musiconn.de

Please give at least 3 notes

12 Jürgen Diet, Music Department of the Bavarian State Library

5. Live demonstration

URL: https://scoresearch.musiconn.de

Thank you for your attention!

The slides of this presentation are available at https://de.slideshare.net/jdiet

Reference:

Jürgen Diet: "Innovative MIR Applications at the Bayerische Staatsbibliothek" conference on "Digital Libraries of Musicology", Paris, 28.9.2018 https://dlfm.web.ox.ac.uk/sites/default/files/dlfm/documents/media/diet-innovative-mir-bsb.pdf