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

Project phases:

- 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 https://www.vifamusik.de/en/about-us/

- 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), 1\textsuperscript{st} series (1892 – 1931) and 2\textsuperscript{nd} 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
5. Live demonstration

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Thank you for your attention!

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

Reference: