

The OMR project of the Bavarian State Library

SIMSSA-workshop at the IAML-congress
in Leipzig, July 28, 2018



Agenda

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

1. Project setting

August 2016 – July 2017:

Preparation for the OMR-project with own funds of the BSB
(hiring of Sanu Pulimootil)

January 2017 – December 2019:

OMR-project is being funded as one work package in the grant
„Fachinformationsdienst Musikwissenschaft – 1. Fortsetzungs-
antrag“ („Specialised Information Service Musicology – First
follow-up grant proposal“), funded by



May 2019:

Deadline for handing in the 2nd follow-up grant proposal,
probably with extensions for the OMR-project

2. Test of OMR software

Test of the following software versions:

- 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 (edited 1858 – 1902 by Friedrich Chrysander)
- Franz Liszt's works (ed. 1907 – 1936 by Carl Alexander)
- Franz Schubert's works (Breitkopf&Härtel, 1884 – 1897)

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

- Ca. 40.000 pages of sheet music
- No manual correction of the OMR data
- Removing polyphony to reduce the complexity of index and search process



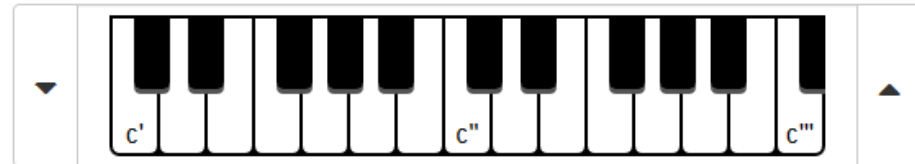
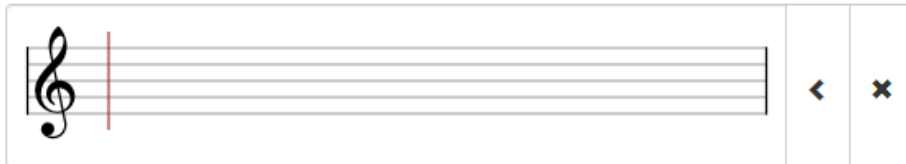
Fig. 1. Sample OMR output from Händel's "Der Messias: Oratorium"

4. A prototypical application for searching in the OMR data

Developing of a melody search application „musiconn.ScoreSearch“
(musiconn.Notensuche)



Notensuche



Transponierte Ergebnisse finden Nur Exakte Ergebnisse finden

Bitte mindestens 3 Noten eingeben

5. Live demonstration

<https://opactest.bsb-muenchen.de/ScoreSearch/>

Thank you for your attention!

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Homepage of the Music Department of the Bavarian State Library:
<http://musik.bsb-muenchen.de>

References:

- Jürgen Diet: Optical Music Recognition in der Bayerischen Staatsbibliothek, in: BIBLIOTHEK – Forschung und Praxis (2018), No. 2, p. 319-323
- Sanu Pulimootil Achankunju: Music Search Engine from Noisy OMR Data, submitted to WoRMS, September 20, 2018, Paris
- Jürgen Diet: Innovative MIR Applications at the Bayerische Staatsbibliothek, submitted to DLfM 2018, September 28, 2018, Paris