

The **Jazzomat Research Project** is situated at the intersection of jazz research, cognitive psychology of creativity, and statistical music analysis. One central aim is to describe and discriminate styles of jazz improvisation by examining jazz solos of various artists and styles with the help of a large computer database and newly developed software tools. Moreover, we want to explore the cognitive foundations of improvisation, test theories about the cognition of creative processes, and evaluate and enhance pedagogical approaches towards jazz improvisation. Furthermore, the project generally aims at advancing statistical and computational methods of music analysis in various areas of music information retrieval.

The **Jazzomat Research Project** is funded by the German Research Foundation with a four-and-a-half-year grant (September 2012 – March 2017). After four years of project runtime, the research workshop aims at presenting, sharing and discussing results of the project and at getting further theoretical and methodological input from international researchers with various areas of expertise. These include style analysis of jazz musicians and genres (session 1), psychology of creative processes (session 2), and music information retrieval, esp. audio-based music analysis and its interaction with symbolic music data (session 3).

Immediately before the Workshop, the **International Summer School on Computational Musicology (ISSCoM2016)** will take place in Weimar (20th – 22th September). The summer school will provide a comprehensive introduction into methods, applications, and potentials of computational musicology and music information retrieval and aims at students and young researchers. Results will be presented during the workshop. See: <http://jazzomat.hfm-weimar.de/isscom2016.html>.



The **WeimarJazzDatabase** currently (May 2016) encompasses 299 monophonic jazz improvisations by various artists and genres; they are transcribed and annotated in a MIDI-like format by project assistants.



MeloSpySuite and **MeloSpyGUI** are free, stand-alone software toolkits for the analysis of monophonic melodies, particularly jazz improvisations. They have been developed within the project and includes feature extraction (melfeature), pattern mining (melpat), and data conversion (melconv) tools along with detailed documentation and a set of introductory tutorials.

Free download: jazzomat.hfm-weimar.de/download/

Hosted by
University of Music FRANZ LISZT Weimar
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Free entrance,
please register via e-mail:
jazzomat@hfm-weimar.de

For further information:
<http://jazzomat.hfm-weimar.de/workshop2016>

Jazzomat

2ND INTERNATIONAL
RESEARCH WORKSHOP

Perspectives for Computational Jazz Studies

September 23rd-24th, 2016
hochschulzentrum am horn
University of Music FRANZ LISZT Weimar

Friday 23rd September

JAZZ STUDIES

- 09:00 **Klaus Frieler, Weimar**
A Feature History of Jazz Improvisation
- 09:45 **André Doebling, Graz**
Movin' Out. The Computer and Changing
Ways of Jazz Analysis
- Coffee Break
- 11:00 **Wolf-Georg Zaddach, Weimar**
Tenor Sax Colossus: Harmonic and
Rhythmic Aspects of Michael Brecker's
and Chris Potter's Improvisation
- 11:45 **Martin Pfeleiderer, Weimar**
Comparative Studies of Jazz Improvisations
- Lunchtime
- 13:30 **Project Presentations of the
International Summer School
(ISSCoM 2016)**

Coffee Break

MUSIC PSYCHOLOGY

- 15:00 **Kai Lothwesen, Klaus Frieler,
Frankfurt and Weimar**
Ideational Flow Model (IFM). A New
Model for Jazz Improvisation
- 15:45 **Martin Norgaard, Atlanta**
A Method for Identifying Motor Pattern
Boundaries in Jazz Piano Improvisations
- Coffee Break
- 17:00 **Andreas Kissenbeck, Munich**
The Effect of Reference Systems in Music.
How the Principles of Cognitive Psychology
Are Reflected in Music Theory Concepts
- 17:45 **Martin Pfeleiderer, Wolf-Georg
Zaddach, Weimar**
How to Improvise? Insights from Recording
Sessions and Surveys with Young Jazz
Musicians


- 21:00 **JAM SESSION AT KASSETURM,
Goetheplatz 10**

Saturday 24th September

MUSIC INFORMATION RETRIEVAL

- 9:00 **Jakob Abeßer, Weimar / Ilmenau**
Who's Playing that Solo? Recognizing
Jazz Musicians by Their „Unique Sound“
- 9:45 **Sebastian Böck, Linz**
Automatic Beat and Downbeat Tracking
in Jazz Recordings
- 10:30 **Christian Dittmar, Erlangen**
Tracking Microtiming Variations in the
Course of a Jazz Performance
- Coffee Break
- 11:45 **Simon Dixon, London**
Music Similarity and Cover Song
Identification: The Case of Jazz
- 12:30 **Stefan Balke, Erlangen**
Using Domain Knowledge for Automatic
Structure Analysis of Jazz Recordings

- 13:30 **FINAL DISCUSSION:
Perspectives for Computational
Methods in Jazz Research**



The workshop takes place at
hochschulzentrum am horn,
Carl-Alexander-Platz 1,
seminar room 1.