

Introduction to Musical Corpus Studies

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Musikwissenschaftliches Seminar - Universität zu Köln

- I. What are Musical Corpus Studies?
- II. Issues
- III. Examples
- IV. Organization of the course
- V. Questions

- main organization via ILIAS
- literature
- Forum
- Zoom link (you are all here)
- external website: <https://fabianmoss.github.io/intro-corpusmus>

I. Computational Music Analysis

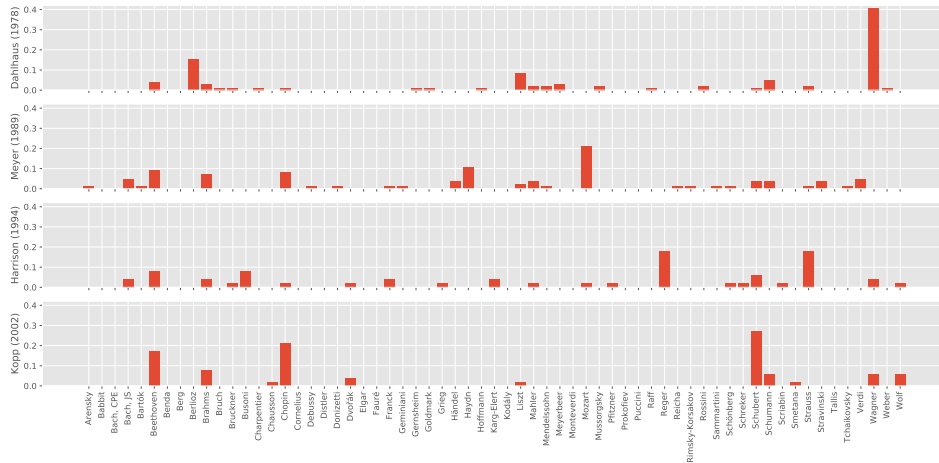
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Potential of Computational Music Analysis

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1. complementing music theory (e.g., addressing potential biases)

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1. complementing music theory (e.g., addressing potential biases)
2. resolving ambiguities in terminology

Definitions of Tonality

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“the relations between musical elements, e.g. notes or chords in a corpus”

(Moss, 2019)

I. Computational Music Analysis

Potential of Computational Music Analysis

1. complementing music theory (e.g., addressing potential biases)
2. resolving ambiguities in terminology
3. empirically validating theoretical assumptions & asking entirely new questions

References

- Cohn, R. (1998). Introduction to Neo-Riemannian Theory: A Survey and a Historical Perspective. *Journal of Music Theory*, 42(2), 167–180.
- Hostinský, O. (1879). *Die Lehre von den musikalischen Klängen: Ein Beitrag zur aesthetischen Begründung der Harmonielehre*. H. Dominicus.
- Hyer, B. (2001). Tonality. In S. Sadie & J. Tyrrell (Eds.), *The New Grove Dictionary of Music and Musicians* (2nd ed., pp. 583–594). Macmillan Publishers.
- Lieck, R., Moss, F. C., & Rohrmeier, M. (in review). The Tonal Diffusion Model.
- Moss, F. C. (2019). *Transitions of Tonality: A Model-Based Corpus Study* (Doctoral Dissertation). École Polytechnique Fédérale de Lausanne. Lausanne, Switzerland.
<https://doi.org/10.5075/epfl-thesis-9808>
- Moss, F. C., Lieck, R., & Rohrmeier, M. (in prep.). Modeling historical changes in pitch-class distributions.

Moss, F. C., Neuwirth, M., Harasim, D., & Rohrmeier, M. (2019). Statistical characteristics of tonal harmony: A corpus study of Beethoven's string quartets. *PLoS ONE*, 14(6), e0217242.

<https://doi.org/10.1371/journal.pone.0217242>

Neuwirth, M., Harasim, D., Moss, F. C., & Rohrmeier, M. (2018). The Annotated Beethoven Corpus (ABC): A Dataset of Harmonic Analyses of All Beethoven String Quartets. *Frontiers in Digital Humanities*, 5(July), 1–5.

<https://doi.org/10.3389/fdigh.2018.00016>

Piantadosi, S. T. (2014). Zipf's word frequency law in natural language: A critical review and future directions.. *Psychonomic Bulletin & Review*, 21(5), 1112–30.

<https://doi.org/10.3758/s13423-014-0585-6>

Zipf, G. K. (1949). *Human behavior and the principle of least effort*. Addison-Wesley Press.