

# Lecture: Music Processing Analysis

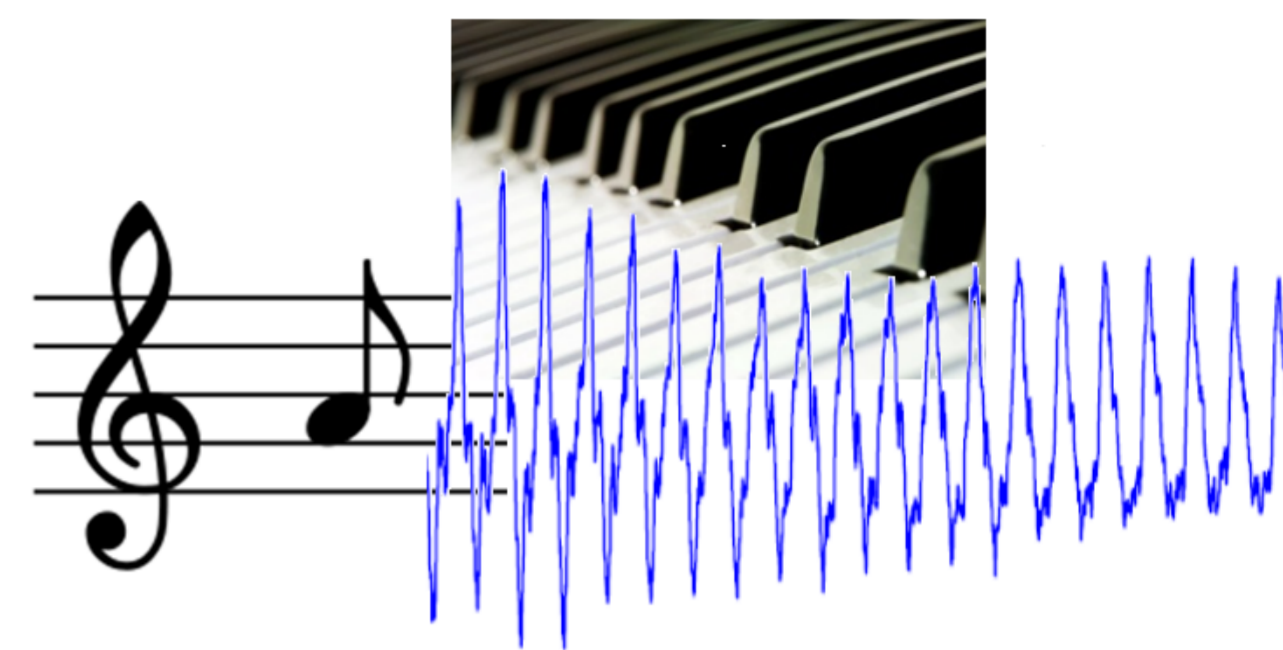
WS 2018/2019

## Instructor

Prof. Dr. Meinard Müller

## Format

Lecture: 2 SWS, Monday 16-18  
ECTS-Credits: 2,5 (5 with exercises for Computer Science Students)  
Language: English  
First Meeting: Monday, 15.10.2018, 16-18  
Place: Room 3R4.04, Am Wolfsmantel 33



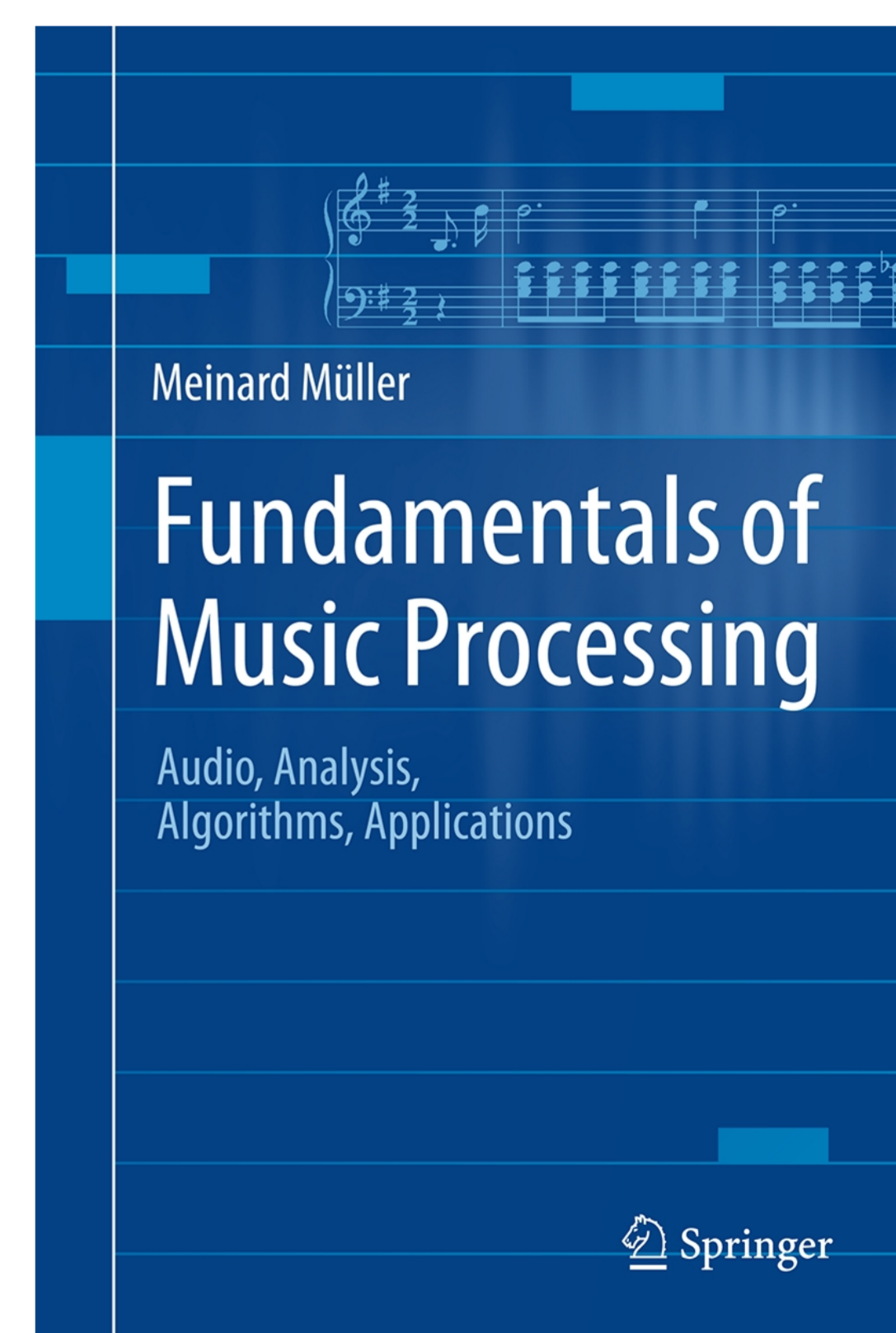
## Content

In this course, we discuss a number of current research problems in music processing or music information retrieval (MIR) covering aspects from information science and digital signal processing. We provide the necessary background information and give numerous motivating examples so that no specialized knowledge is required. The students should have a solid mathematical background and some background in digital signal processing. Topics include:

- Music Representations and Audio Features
- Music Synchronization and Alignment
- Audio Structure Analysis and Segmentation
- Tempo and Beat Tracking
- Content-based Audio Retrieval

## Accompanying Textbook

Meinard Müller  
Fundamentals of Music Processing  
Audio, Analysis, Algorithms, Applications  
483 p., 249 illus., 30 illus. in color, hardcover  
Springer, 2015



## Additional Information

[www.audiolabs-erlangen.de/fau/professor/mueller/teaching/2018w\\_mpa](http://www.audiolabs-erlangen.de/fau/professor/mueller/teaching/2018w_mpa)

For further information please contact:

Prof. Dr. Meinard Müller, [meinard.mueller@audiolabs-erlangen.de](mailto:meinard.mueller@audiolabs-erlangen.de)