Lecture: Music Processing Analysis
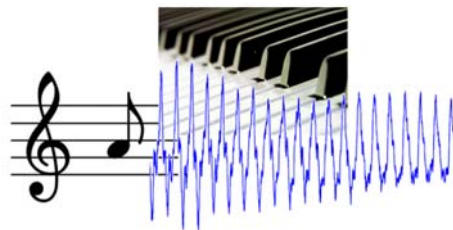
WS 2017/2018

Instructor

Prof. Dr. Meinard Müller

Format

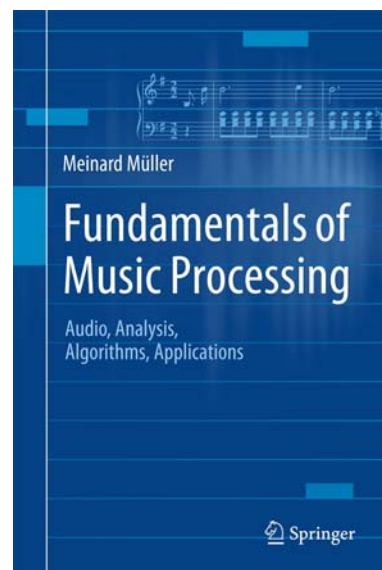|	
Lecture:	2 SWS, Monday 16-18
ECTS-Credits:	2,5 (5 with exercises for Computer Science Students)
Language:	English
First Meeting:	Monday, 30.10.2017, 16-18
Place:	Room 3R4.04, Am Wolfsmantel 33

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

Meinard Müller

Fundamentals of Music Processing

Audio, Analysis, Algorithms, Applications

Springer

Additional Information

www.audiolabs-erlangen.de/fau/professor/mueller/teaching/2017w_mpa

For further information please contact:
Prof. Dr. Meinard Müller, meinard.mueller@audiolabs-erlangen.de