



Tutorial Music Structure Analysis

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Meinard Müller



- 2007 Habilitation
Bonn, Germany
- 2007 - 2012
Senior researcher @ MPI Informatik
Saarland, Germany
- 2012 - present
Professor @ AudioLabs
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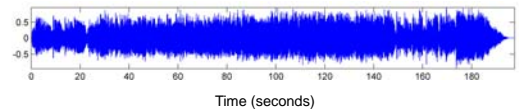


- 2008 - 2010 Master's
McGill University
- 2010 - 2014 Ph.D.
Queen Mary University London
(and University of Southern California)
- 2014 - 2015
Postdoctoral researcher at AIST Japan



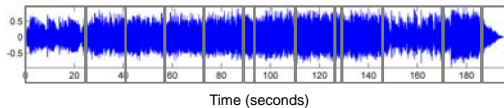
Music Structure Analysis

Example: Zager & Evans "In The Year 2525"



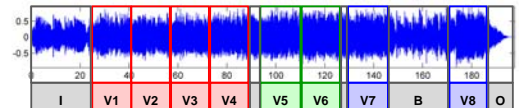
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Example: Zager & Evans "In The Year 2525"



Music Structure Analysis

Example: Zager & Evans "In The Year 2525"



Music Structure Analysis

General goal: Divide an audio recording into temporal segments corresponding to musical parts and group these segments into musically meaningful categories.

Examples:

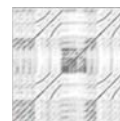
- Stanzas of a folk song
- Intro, verse, chorus, bridge, outro sections of a pop song
- Exposition, development, recapitulation, coda of a sonata
- Musical form ABACADA ... of a rondo

Overview

Part I: Principles & Techniques
(Meinard Müller)

Coffee Break

Part II: Evaluation & Annotation
(Jordan Smith)

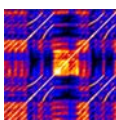


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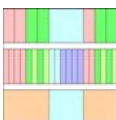


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Book Project

A First Course on Music Processing

Textbook (approx. 500 pages)

1. Music Representations
2. Fourier Analysis of Signals
3. Music Synchronization
4. **Music Structure Analysis**
5. Chord Recognition
6. Tempo and Beat Tracking
7. Content-based Audio Retrieval
8. Music Transcription



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Need people for proofreading and testing

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