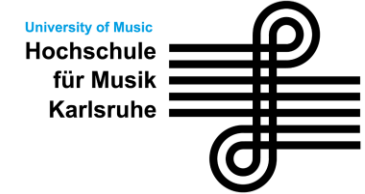


Hochschule für Musik Karlsruhe
MASP-1
bei Prof. Dr. Marlon Schumacher
Wintersemester 2023/2024



Örjan Sandred: Interpretation of everyday gestures

17.01.2024

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5. Semester BA Musikinformatik/Musikwissenschaft

Chronometric Time – Metric Time

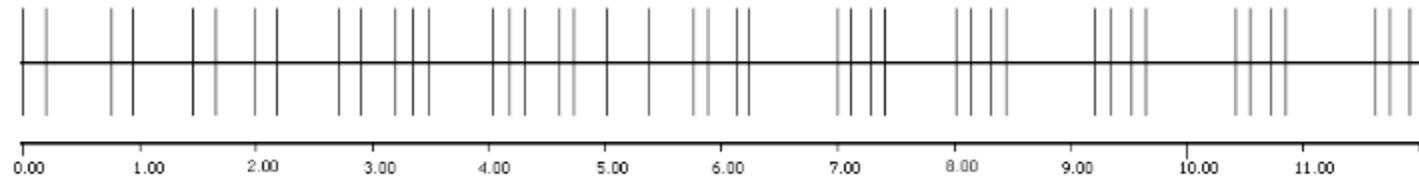


Fig.1a. A chronometric timeline representing the sound events from a passing train.



Fig.1b. The same sequence of events quantified into proportional notation.

Chronometric Time – Metric Time



Fig.1b. The same sequence of events quantified into proportional notation.



Fig.2. The same sequence as in fig 1b, but forced into a metric framework.

Chronometric Time – Metric Time



Fig.3a



Fig.3b.

„Quantification like a composer“



Fig.4a. The chronometric timeline quantified with rhythmical ornaments included.



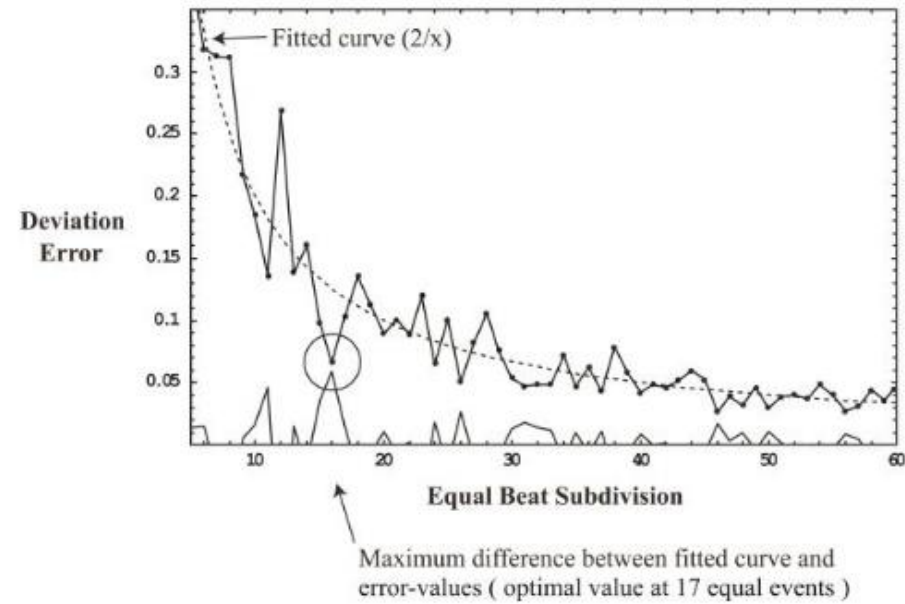
Fig.4b. The motifs and durations used in the above example.

XA-LAN Multi-Level Quantizer

Initial Sequence: Random set of 10 events (9 durations):



Deviation errors based on equal subdivisions of the total duration:



17 equally spaced events (16 subdivisions) and rendering into standard musical notation:





Figure 3. Multi-Level Quantization I.

In the following figure, the resolution subdivision is downsampled by half (to 6) of the previous quantization (Figure 4) :



Figure 4. Multi-Level Quantization II.

Lastly, the same array of durations are quantized with a different metric container (6/32, 1/4, and 7/32) and the maximum number of subdivisions per nesting level is 12 again (Figure 5) :



Figure 5. Multi-Level Quantization III.

