



# KOLLOQUIUM

Institut für Elektrotechnik, Elektronik und Informationstechnik

## Sound Synthesis Algorithms

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**Montag, der 16.12.2002, 14<sup>30</sup> Uhr**

Cauerstraße 7, Seminarraum N 5.17

**Diskussionsleitung: Priv. Doz. Dr.-Ing. habil. Rudolf Rabenstein**

Sound synthesis algorithms are computational methods for the artificial generation of musical sound, voice, sound effects, or other noises. Currently, sound synthesis is usually implemented with a computer, and the algorithms are closely related to digital signal processing.

This presentation gives an overview of various algorithms for synthesizing musical sounds. A general classification of sound synthesis methods is also discussed. One of the current trends in sound synthesis research is related to physical modeling of musical instruments.

Some simple physically based synthesis techniques are presented. The presentation will include audio examples of synthetic tones and music.