Audio Information Processing

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Overview

Model-based description from acoustics to perception

- Acoustics
- Sound
- Periphery
- Neuronal processing
- Perception

Virtual acoustics, room acoustics

Auditory models, hearing impairment & devices

Applications, sound quality
Sound field reproduction and testing

Anechoic chamber: Interactive room acoustic simulation and reproduction

Hearing devices, models, sound quality

From understanding the “cocktail party”… to algorithms of hearing aids and cochlear implants

... to using auditory models to gain sound quality measures (features) for non-destructive testing