

# Perceptual assessment of spatial sound: the Two!Ears project

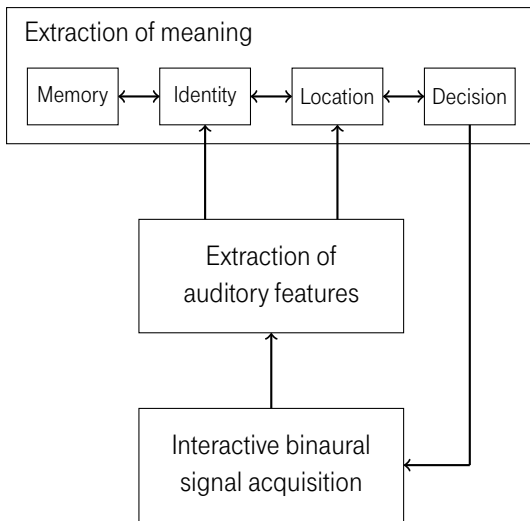
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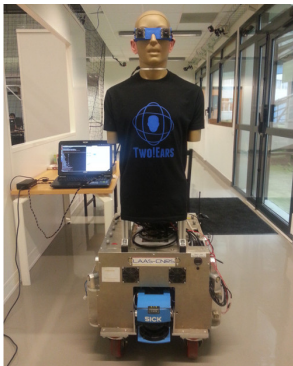
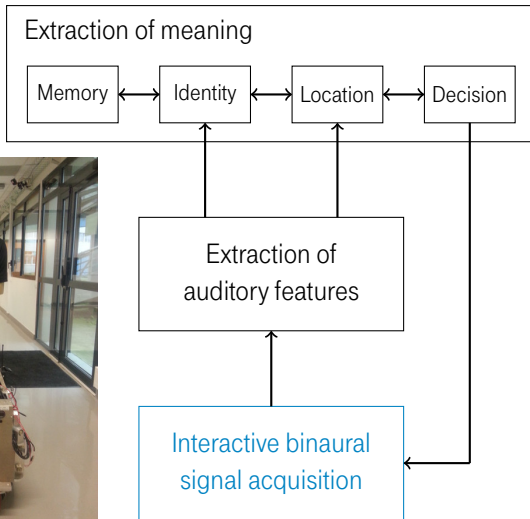
06. June 2016



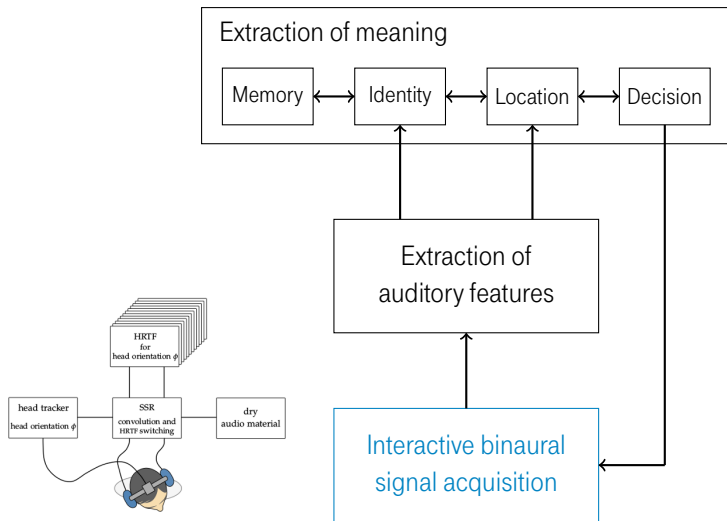
# Two!Ears auditory model



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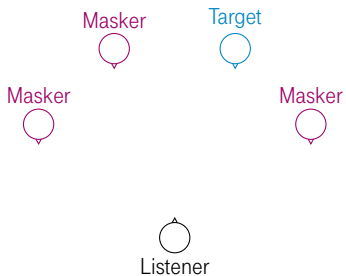


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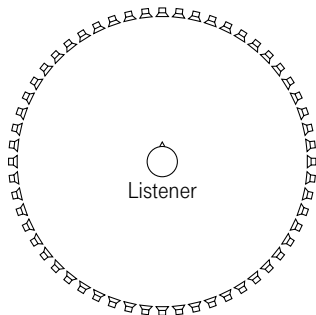


# Applications of model

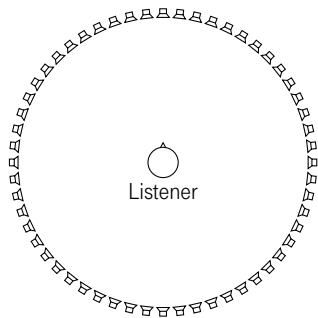
## Auditory scene analysis



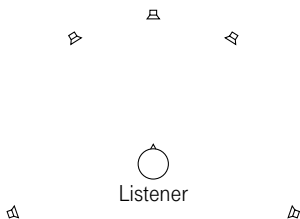
## Assessment of spatial sound systems



# How to assess spatial sound systems?

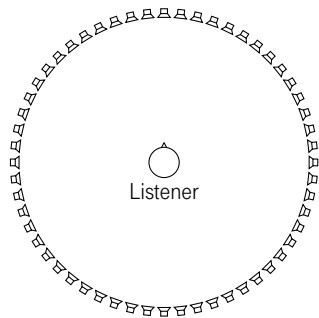


vs.

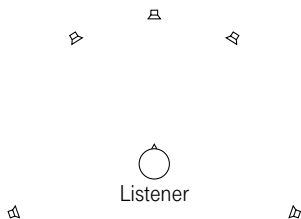


# How to assess spatial sound systems?

What to ask? Which scene to use?



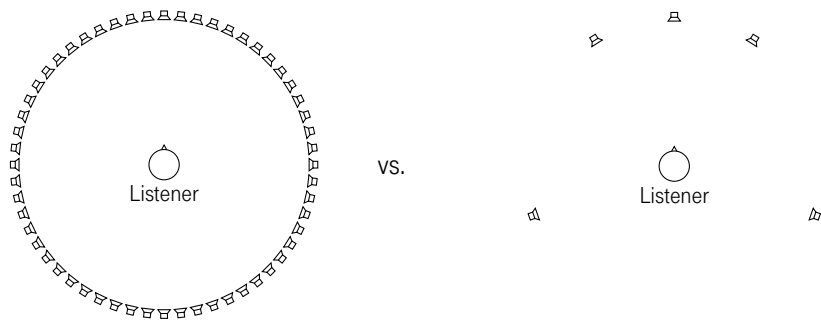
vs.



- Perceptual attributes: localization, coloration for simple scenes
- Sound quality: preference ratings for complex scenes

# How to assess spatial sound systems?

Advantages and disadvantages of binaural simulations



- Switch between different listening positions
- Compare arbitrary loudspeaker setup
- Ensure same input signals to the listener and the auditory model
- BUT: influence on results?