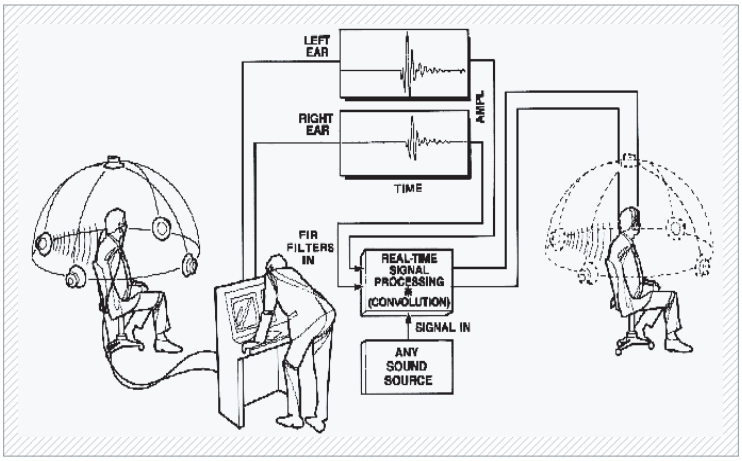
Human Systems integration division

Spatial Auditory Displays □ Research & Technology Development

Objective

To develop enabling technologies for increased situational awareness and speech intelligibility in advanced acoustic displays.



Approach

Develop methods for synthesizing spatial sound from measured acoustical features of humans and the working environment. Evaluate task performance, intelligibility, and localization using advanced technologies for acoustic displays in aero-space applications. Enable new technological advancements in the development of human-centered information displays.

Impact

Basic research enabling worldwide technological development. Aerospace applications research for collision avoidance systems, virtual reality for training, enhanced communications, and situational awareness.

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