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Microphone Arrays: Signal Processing Techniques and ...

The study and implementation of microphone arrays originated over 20 years ago. Thanks to the research and experimental developments pursued to the present day, the field has matured to the point that array-based technology now has immediate applicability to a number of current systems and a vast potential for the improvement of existing products and the creation of future devices.

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Microphone Arrays: Signal Processing Techniques and ...

The authors have organized this article around the signal enhancement scheme designed for belt microphones in a multi-seat scenario as shown in Fig 4.All signal processing solutions involving various tasks like echo cancelation, speaker localization, signal equalization and delay alignment, microphone combination, noise estimation, residual echo and noise suppression, and speech mixer will be ...

Signal processing techniques for seat-belt microphone arrays

techniques that have been used for microphone arrays include fixed spatial filters, such as, frequency invariant beamformers, optimal and adaptive beamformers.

(PDF) Microphone Array Speech Processing

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Microphone Arrays: Signal Processing Techniques and ...

There are four assumptions in array processing. The first assumption is that there is uniform propagation in all directions of isotropic and non-dispersive medium. The second assumption is that for far field array processing, the radius of propagation is much greater than size of the array and that there is plane wave propagation. The third assumption is that there is a zero mean white noise and signal, which shows uncorrelation. Finally, the last assumption is that there is no coupling and the

Array processing—Wikipedia

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