



TECHNOLOGY

Fly-Ear Inspired Miniature Acoustic Sensor System

OVERVIEW

Conventional directional microphones have various constraints when attempting to deliver high performance along with a small footprint. There is performance degradation when size decreases relative to the target sound wavelength. Thus, there is a need for a miniature microphone that is able to provide excellent sound source localization.

Researchers at the University of Maryland have developed a miniature acoustic sensor system that fully incorporates a fly ear inspired sensor mechanism which provides maximum directional sensitivity and minimum nonlinearity, and in an extremely small size.

APPLICATIONS

Microphone Sensor Array Sensing Systems
Health Care – Hearing Aids
Search and Rescue Robots
Underwater Acoustic Networks

CONTACT INFO

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Additional Information

INSTITUTION

University of Maryland, College Park

CATEGORIES

- Sensors/Monitors
- Microelectronics
- Engineering
- Devices

EXTERNAL RESOURCES

- [US Patent 8,503,693](#)

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