

Subsurface Glider Localization Using Broadband Acoustic Sources

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3:00-3:30 pm Coffee Hour

3:30-4:30 pm Seminar

Abstract

Ocean gliders are low-power, buoyancy-driven, autonomous underwater vehicles with applications ranging from collecting oceanographic temperature measurements to military surveillance. At the surface, gliders obtain positioning from GPS, but during a dive, which can last up to 8 hours, little is known about the gliders' flight path. Narrowband source signals have been used to localize gliders underwater with estimated uncertainties of a few kilometers. By utilizing the improved travel-time resolution inherent in broadband ocean acoustic tomography signals, this uncertainty can be reduced by 1-2 orders of magnitude.

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