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Soggetti	Acoustics Acoustical engineering Signal processing Water Hydrology Engineering Acoustics Signal, Speech and Image Processing
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Nota di contenuto	Inference of Sound Attenuation in Marine Sediments from Modal Dispersion in Shallow Water -- Distributed Underwater Sensing: Applications and Challenges -- Counterintuitive Results in Underwater Acoustic Communications -- Comparisons of Methods for Numerical Internal Wave Simulation in Long Range Acoustical Propagation -- Acoustic Data Assimilation: Concepts and Examples -- The Preliminary Results of a Single-Hydrophone Geoacoustic Inversion for Data Collected at the Sea of Japan -- Measurements of Ultrasound Attenuation of Suspended Particles with Various Size Distributions -- A Low Complexity Multichannel Adaptive Turbo Equalizer for a Large Delay Spread Sparse Underwater Acoustic Channel -- A Turbo Equalization Based on a Sparse Doubly Spread Acoustic Channels Estimation -- Design and Testing of Underwater Acoustic Communications for an AUV -- Hydroflown™: MEMS Based Underwater Vector Sensors and Applications -- Axis Mismatches Between Pairs of Sensitive Elements of Underwater Acoustic Velocity Gradient Sensors --

A Passive Fathometer Technique for Bottom Profiling Using Ambient Noise Target Motion Parameter Estimation for LOFARgrams Based on Waveguide Invariants -- Source Localization by Maximizing the Longitudinal Correlation Using Waveguide Invariant Theory -- Selective Detection and Localization by Decomposition of a Subrank Time Reversal Operator -- Sounds of Undersea Gas Leaks -- Multi-AUV Localization for an Underwater Acoustic Sensor Network.

Sommario/riassunto

These proceedings are a collection of 16 selected scientific papers and reviews by distinguished international experts that were presented at the 4th Pacific Rim Underwater Acoustics Conference (PRUAC), held in Hangzhou, China in October 2013. The topics discussed at the conference include internal wave observation and prediction; environmental uncertainty and coupling to sound propagation; environmental noise and ocean dynamics; dynamic modeling in acoustic fields; acoustic tomography and ocean parameter estimation; time reversal and matched field processing; underwater acoustic localization and communication as well as measurement instrumentations and platforms. These proceedings provide insights into the latest developments in underwater acoustics, promoting the exchange of ideas for the benefit of future research.
