

Acoustic Signal Processing In Passive Sonar System With

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[Acoustic Signal Processing In Passive](#)

ACOUSTIC SIGNAL PROCESSING IN PASSIVE SONAR SYSTEM ...

1 ACOUSTIC SIGNAL PROCESSING IN PASSIVE SONAR SYSTEM Acoustic signal processing is a multistage process It is directly determined by the idea of the system which transforms simultaneously signals from four frequency ranges and is based on the algorithm of the delay-and-sum beamformer operating in the frequency domain

Defense Applications of Acoustic Signal Processing

generation passive sonar signal-processing methods and systems to improve the reach of the sensors and to enhance the situational awareness of a submarine A passive sonar on a submarine consists of an array of hydrophones (either hull mounted or towed) that samples the underwater acoustic pressure field in both space and time

Signal Processing in Passive SONAR systems

Signal Processing in Passive SONAR systems Dr Ahmed Mahmood Acoustic Research Laboratory (ARL) National University of Singapore (NUS) Recorded observations • Time-domain signal • Multiple samples Spectral representation • Spectra analysis offers us insight into how the noise

Underwater Acoustic Signal Processing Workshop

and development in signal processing with application to Navy sonar systems After retiring from Navy civil service in 1999, his interests shifted to the application of passive sonar signal processing to noninvasive testing for coronary artery disease until he was coaxed back into the Navy fold from 2001-2005 to manage the Office

An Approach for Diver Passive Detection Based on the ...

with the active mode, passive sonar has small energy consumption, is cheaper and more hidden, and is being pursued as an alternative [1] In passive diver detection system, the diver's breathing sound, coming from the gas exchange process in SCUBA, is useful for the passive detection of the

diver's presence [2,3] The periodic

SIGNAL PROCESSING FOR MULTICARRIER MODULATION IN ...

SIGNAL PROCESSING FOR MULTICARRIER MODULATION IN UNDERWATER ACOUSTIC COMMUNICATION AND PASSIVE RADAR Christian R Berger, PhD University of Connecticut, 2009 This dissertation focuses on advanced signal processing techniques for mul-ticarrier modulation in two application scenarios: underwater acoustic (UWA) communication and passive radar

Passive Sonar Signal Detection and Classi cation Based on ...

0 Passive Sonar Signal Detection and Classi P cation Based on Independent Component Analysis N N de Moura, J M de Seixas and Ricardo Ramos Federal University of Rio de Janeiro, COPPE/Poli, Signal Processing Laboratory,

Signal Processing Challenges for Active Noise Cancellation ...

tion at low frequencies is insufcient using this passive approach It can be supplemented with active signal processing approaches which rely on the principle of destructive interference A loud-speaker emits a cancellation signal to attenuate the present noise This approach is typically known as Active Noise Cancellation (ANC)

Acoustic Detection of a Fixed-Wing UAV

Acoustic sensing is a passive technology that involves the detection of acoustic wave energy Signal Processing Overview Once the acoustic signals had been digitally acquired, various processing steps were implemented to enable source detection and spatial localization The required processing steps may be sectioned into

Acoustics and Sustainability

signals which can be detected using sonar A popular empirical technique for passive acoustic detection of surface ships from submarines using these sonar signals is DEMON (Detection of Envelope Modulation on Noise) process-ing As the name suggests, DEMON processing seeks to detect the frequencies of modulation, ie the shaft and blade

Development and Testing of an Ultra Low Power System-On ...

Development and Testing of an Ultra Low Power System-On-Chip (SOC) Platform for Marine Mammal Tags and Passive Acoustic Signal Processing 5a CONTRACT NUMBER 5b GRANT NUMBER 5c PROGRAM ELEMENT NUMBER 6 AUTHOR(S) 5d PROJECT NUMBER 5e TASK NUMBER 5f WORK UNIT NUMBER 7 PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

SONAR Systems and Underwater Signal Processing: Classic ...

SONAR Systems and Underwater Signal Processing: Classic and Modern Approaches 175 SONAR systems, the measured signals, known as contacts, are reflected either from targets or from other undesired sources In the latter case, the measured signal is known as a false alarm or clutter as mentioned before

Fast contactless vibrating structure characterization ...

ciency, interest and potentialities of FPGA-based real-time digital signal processing for the contact-less interrogation of passive embedded probes with high refresh rates PACS numbers: 8440-x,4320Ye, 4338Rh Keywords: strain gauge, wireless, battery-less, surface acoustic wave, RADAR, signal processing, image processing

Lamello: Passive Acoustic Sensing for Tangible Input ...

Lamello: Passive Acoustic Sensing for Tangible Input Components Audio processing pipeline The audio signal of a tine strike is characterized by an

initial transient—a short high energy sound across a wide range of frequencies—followed by free vibration with a local long-

Experimental Study of Acoustic Noise Correlation Technique ...

Acoustic Noise Correlation, Signal Processing, Passive Green's Function Reconstruction, Non-Destructive Testing (NDT), Structural Health Monitoring (SHM), Rail Monitoring 1 Introduction Transportation is an activity that involves significant risks due to the displacement speed of vehicles

EXPERTISE

mammal research and to passive acoustic signal processing” Dec 2008 Elected a Fellow at the Acoustical Society of America “for contributions to signal processing in marine mammal research” Dec 2004 AB Wood Medal, UK Institute of Acoustics-“presented to an individual, under

Acoustic Surveillance Unit (ASU) - Signal Systems Corp

Acoustic Surveillance Unit (ASU) Unattended Ground Sensor Features: • Integrated acoustic sensing & signal processing • Low Power SHARC processor for passive vehicle azimuth & elevation reporting • Wake up subsystem for ultra low power consumption • Contact reports via RS-232 or RS-485 • Alarms current DHS UGS upon elevated target

Active Noise Control: A Tutorial Review

Keywords— Active noise control, active vibration control, adaptive noise cancellation, adaptive systems, digital signal processing (DSP) applications I INTRODUCTION A Overview Acoustic noise problems become more and more evident as increased numbers of industrial equipment such as engines, blowers, fans, transformers, and compressors are

Narrowband Passive Sonar Tracking - EMIS

and combined signal processing for broadband and narrowband detection and analy- submarine entirely relies on these acoustic signals for long range detection and surveil- Narrowband passive sonar tracking results for the Flank Array are presented in Section 4 In Section 5, we summarize and draw conclusions