2015 International Symposium on Ocean Electronics (SYMPOL 2015)

Kochi, India 18 – 20 November 2015



IEEE Catalog Number: 0
ISBN: 9

CFP1597L-POD 978-1-5090-2512-1

Copyright © 2015 by the Institute of Electrical and Electronics Engineers, Inc All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP1597L-POD

 ISBN (Print-On-Demand):
 978-1-5090-2512-1

 ISBN (Online):
 978-1-5090-2511-4

ISSN: 2326-5558

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



Table of Contents

Performance Analysis of Linear Recursive Least Squares Adaptive Filter to mitigate Multipath effect....1

Sireesha N, K.Chithra, and Tata Sudhakar

Optimum statistical gridding technique for Multi Beam Echo Sounder (MBES) data processing....7

R. Kannan, G.Latha, M. Prashanthi Devi

Monitoring the condition of Electromechanical Actuation System from feedback electronics....N/A

R.V. Naveen Kumar, Y.Laxminarayana, J. V. Sudheendra and A.K.Chattopadhyay

GA Based Selection and Parameter Optimization for an SVM Based Underwater Target Classifier....17

B. M. Sherin and Dr. Supriya M. H.

Sonar Image Denoising using Adaptive Processing of Local Patches....23 Rithu James and Supriya M. H.

Underwater Image Enhancement using Single Scale Retinex on a Reconfigurable Hardware....30

Alex Raj S. M., and Supriya M. H.

Real time target recognition using Labview....35

Chinchu M and Supriya M H

An \(\ell2\)-norm Regularized Underwater Target Classifier with Improved Generalization Capability....44

Satheesh Chandran C., Suraj Kamal, A. Mujeeb and Supriya M.H.

PoC Demonstration of Communication Gateway Buoy....52

Sameer Babu T P1, Abdul Wahab K M, and Sunil Kumar S

Development of Directivity Measurement System for Underwater Acoustic Transducers....59

P.S.S.R.Sridhar, A.Malarkodi, K.Nithyanandam and G.Latha

Under Water Acoustic Channel Identification and Estimation for Adaptive Modem....N/A

A.Sambasiva Rao, M.Srinivasa Rao, Dr. S.Raja Dr. A.M.Prasad

BCH Coded OFDM for Undersea Acoustic Links....63

Sabna N., Revathy R., and P.R. Saseendran Pillai

Experimental Observation of Direction-of-Arrival (DOA) Estimation Algorithms in a Tank Environment for Sonar Application....69

Sayanti Bardhan and Shibu Jacob

Experimental result for Direction of Arrival (DOA) estimation using under water acoustic vector sensor....75

K. Kiran, S. Najeem and G. Latha

Sparse Reconstruction based Direction of Arrival Estimation of Underwater Targets....81

M Rema Devi, N. Suresh Kumar, Jinu Joseph

Empirical Mode Decomposition based Techniques for the Estimation of Experimental Scholte Wave Dispersion....87

Gopu R. Potty and James H. Miller

Data-model validation of broadband normal mode reverberation model....94

Baiju M Nair and M Padmanabham

Development of an Instrumentation Platform for Ocean Noise Data Acquisition and Analysis....102

Sujith Kumar S. Pai, Prasanth P. P., Supriya M. H. and P. R. Saseendran Pillai

Time Reversal Precoding in the Presence of Non-Gaussian Underwater Acoustic Noise....108

Sharbari Banerjee, Monika Agrawal