

Contents

Advances in Signal Processing for Maritime Applications, Frank Ehlers, Warren Fox, Dirk Maiwald, Martin Ulmke, and Gary Wood

Volume 2010, Article ID 512767, 5 pages

Underwater Broadband Source Localization Based on Modal Filtering and Features Extraction, Maciej Lopatka, Grégoire Le Touzé, Barbara Nicolas, Xavier Cristol, Jérôme I. Mars, and Dominique Fattaccioli

Volume 2010, Article ID 304103, 18 pages

Simulation of Matched Field Processing Localization Based on Empirical Mode Decomposition and Karhunen-Loève Expansion in Underwater Waveguide Environment, Qiang Wang and Qin Jiang

Volume 2010, Article ID 483524, 7 pages

A Relative-Localization Algorithm Using Incomplete Pairwise Distance Measurements for Underwater Applications, Kae Y. Foo and Philip R. Atkins

Volume 2010, Article ID 930327, 16 pages

Acoustic Particle Detection with the ANTARES Detector, C. Richardt, G. Anton, K. Graf, J. Hößl, U. Katz, R. Lahmann, and M. Neff

Volume 2010, Article ID 970581, 7 pages

Masking of Time-Frequency Patterns in Applications of Passive Underwater Target Detection, Jüri Sildam

Volume 2010, Article ID 298038, 10 pages

An Underwater Acoustic Implementation of DFT-Spread OFDM, Yonghuai Zhang, Haixin Sun, En Cheng, and Weijie Shen

Volume 2010, Article ID 572453, 6 pages

Low Complexity Iterative Receiver Design for Shallow Water Acoustic Channels, C. P. Shah, C. C. Tsimenidis, B. S. Sharif, and J. A. Neasham

Volume 2010, Article ID 590458, 13 pages

Automatic Indexing for Content Analysis of Whale Recordings and XML Representation, Frédéric Bénard and Hervé Glotin

Volume 2010, Article ID 695017, 8 pages

Silent Localization of Underwater Sensors Using Magnetometers, Jonas Callmer, Martin Skoglund, and Fredrik Gustafsson

Volume 2010, Article ID 709318, 8 pages

Hausdorff-Based RC and IESIL Combined Positioning Algorithm for Underwater Geomagnetic Navigation, Yi Lin

Volume 2010, Article ID 593238, 11 pages

Realistic Subsurface Anomaly Discrimination Using Electromagnetic Induction and an SVM Classifier, Juan Pablo Fernández, Fridon Shubitidze, Irma Shamatava, Benjamin E. Barrowes, and Kevin O'Neill

Volume 2010, Article ID 305890, 11 pages

CFAR Detection from Noncoherent Radar Echoes Using Bayesian Theory, Hiroyuki Yamaguchi and Wataru Suganuma
Volume 2010, Article ID 969751, 12 pages

Artificial Neural Network-Based Clutter Reduction Systems for Ship Size Estimation in Maritime Radars, R. Vicen-Bueno, R. Carrasco-Álvarez, M. Rosa-Zurera, J. C. Nieto-Borge, and M. P. Jarabo-Amores
Volume 2010, Article ID 380473, 15 pages

An Evaluation of Pixel-Based Methods for the Detection of Floating Objects on the Sea Surface, Alexander Borghgraef, Olivier Barnich, Fabian Lapiere, Marc Van Droogenbroeck, Wilfried Philips, and Marc Acheroy
Volume 2010, Article ID 978451, 11 pages

Statistical Real-time Model for Performance Prediction of Ship Detection from Microsatellite Electro-Optical Imagers, Fabian D. Lapiere, Alexander Borghgraef, and Marijke Vandewal
Volume 2010, Article ID 475948, 15 pages

Techniques for Effective Optical Noise Rejection in Amplitude-Modulated Laser Optical Radars for Underwater Three-Dimensional Imaging, R. Ricci, M. Francucci, L. De Dominicis, M. Ferri de Collibus, G. Fornetti, M. Guarneri, M. Nuvoli, E. Paglia, and L. Bartolini
Volume 2010, Article ID 958360, 24 pages

Underwater Image Processing: State of the Art of Restoration and Image Enhancement Methods, Raimondo Schettini and Silvia Corchs
Volume 2010, Article ID 746052, 14 pages

A Fully Automated Method to Detect and Segment a Manufactured Object in an Underwater Color Image, Christian Barat and Ronald Phlypo
Volume 2010, Article ID 568092, 10 pages