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<td>Working with a Cabled Observatory: How Oceans 2.0 Will Help Your Science in the</td>
<td>Benoît Pirenne</td>
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<td>Face of So Much More Data</td>
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<td>Acoustic Seabed Classification with Multibeam and Side-scan Images</td>
<td>Jon Preston</td>
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<td>The Stochastic Matched Filter and its Applications to Detection and De-noising</td>
<td>Philippe Courmontagne</td>
<td>Provence Materials and Microelectronics Lab, CNRS, France</td>
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<td>Ocean Wave Measurement and Analysis</td>
<td>Theodore Matlach</td>
<td>National Data Buoy Center, Mississippi</td>
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<td>Fundamental underwater acoustics and bottom-interacting shallow water acoustics</td>
<td>William M. Carey</td>
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<td>Stuart Anderson</td>
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<td>Stochastic matched filters for detection and de-noising of sonar signals</td>
<td>Philippe Courmontagne</td>
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<td>Localisation and mapping</td>
<td>Stefan Williams</td>
<td>University of New South Wales</td>
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<td>Marc Pinto</td>
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<td>Roy Hansen</td>
<td>Norwegian Defence Research Establishment, Kjeller, Norway</td>
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<td>Underwater acoustics communications</td>
<td>Milica Stojanovic and Lee Freitag</td>
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<td>Bob Swist</td>
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<td>Geospatial Web Services -Ocean Data Visualization, Modeling, and Information</td>
<td>Blais Ioup, John Sample</td>
<td>Naval Research Laboratory Stennis Space Center</td>
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<td>Pressure testing, Beat Practices</td>
<td>Kervin Hardy, Steve Weston, Matt James</td>
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<td>Design of synthetic aperture sonar systems for high resolution seabed imaging</td>
<td>Dr Marc Pinto</td>
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<td>Hyperspectral Imaging - A Powerful Synoptic Tool</td>
<td>Herbert Hibley</td>
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<td>Sonar Signal - Image Processing</td>
<td>John Ganni</td>
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<td>Klaus-Werner Gurgel</td>
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<td>The Stochastic Matched Filter: applications to de-noising and detection</td>
<td>Dr. Philippe Courmontagne</td>
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<td>Acoustical Underwater Communication Principles</td>
<td>Peter Adam Hoher</td>
<td>University of Kiel, Germany</td>
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<td>Application of microsensors in the marine environment</td>
<td>Lars R. Dangaard</td>
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<td>Precise Bathymetry Using Multibeam Echosounder</td>
<td>Volker Böder</td>
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<td>Applied Model-Based Signal Processing: Classical, Modern and Bayesian Techniques</td>
<td>James Candy</td>
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<td>Fundamental Underwater Acoustics And Bottom-interacting Shallow Water Acoustic</td>
<td>Bill Carey</td>
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<td>Herb Ripley</td>
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<td>Array Processing and Beamforming</td>
<td>Dr. Christophe Simoes</td>
<td>Ecole Nationale des Telecommunications, France</td>
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<td>Sensors Technology - Atmospheric Effects on Visible and Infra-Red Imaging in Marine Environments</td>
<td>Denis Dion, Dr. Justin Bazhur, Dr. T. Yamazaki, Dr. Y. Otsawa</td>
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<td>Acoustic Seabed Classification with Multibeam and SideScan Images</td>
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<td>Design of Synthetic Aperture Sonar System for High Resolution Seabed Imaging</td>
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<td>Matlab Tools for Processing Data from Acoustic Doppler Current Meters Deployed on Deep Water Moorings</td>
<td>Bruce Andrews, Bruce Magnell</td>
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<td>Multiple Target Tracking</td>
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<td>Fundamentals of Geology as Applicable to GPS Surveying</td>
<td>Munendra Kumar, Francis W. Darby</td>
<td>Montgomery Village, MD and Penn State University, Wilkes-Barre campus</td>
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<td>Systems Engineering with Wave, Wind and Ocean Currents Data</td>
<td>Sean M. Kary</td>
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<td>Environmental Investigations at the Seafloor Using Optical and Acoustic Sensors</td>
<td>Anders Tangberg</td>
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<td>Hydrodynamics, Dynamics and Control of UUVs</td>
<td>Dr. Douglas E. Humphreys</td>
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<td>2005</td>
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<td>Subsurface Wave Measurements</td>
<td>Alla Luhmann, Torstein Pedersen</td>
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<td>Acoustic Time Reversal - Theory</td>
<td>Mathias Fink</td>
<td>Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), France</td>
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<td>Acoustic Time Reversal - Marine Applications</td>
<td>William Kuperman</td>
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<td>Development of a Marine GIS</td>
<td>Christopher Gold</td>
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<td>Maria Joao Rendas</td>
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<td>Propagation of EM Waves through Seawater</td>
<td>Ahmed Al-Shamma‘a</td>
<td>University of Liverpool, UK</td>
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<td>Friedhelm Schroeder</td>
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<td>Marine Geophysical Observations in Japan: From Active-Source Survey to Long Term Cabled Observatory</td>
<td>Hitoshi Mikata</td>
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<td>High Resolution Mapping of the Seabed</td>
<td>Donald M. Hussong</td>
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<td>Paul Devine, Dr. Peter Spain</td>
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<td>Underwater Optical Imaging: Theory and Practice</td>
<td>Dr. Jules Jaffe</td>
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<td>Target Classification Architectures: The Class-Specific Method</td>
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<td>Practical Analog and Digital Control System Design</td>
<td>Barry L. Dorr</td>
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<td>Richard Crout</td>
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<td>Applications of GPS in Marine Navigation and Hydrographic Surveying</td>
<td>Ahmed El-Rabany</td>
<td>Assistant Professor, Ryerson University, Toronto, Canada</td>
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<td>CORMAT, Inc</td>
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<td>Modern Spectral Estimation Techniques in Digital Signal Processing</td>
<td>James V. Candy</td>
<td>Chief Scientist for Engineering and Director, Center for Advanced Signal &amp; Image Sciences, University of California, Lawrence Livermore</td>
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<td>Dr. Marc Pinto &amp; Dr. Enson Chang</td>
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<td>William A. Kuperman Michael B. Porter &amp; Henrik Schmidt</td>
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<td>Philip Babcock</td>
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<td>Adaptive Equalization for High Speed Underwater Data Communications</td>
<td>Dr. Mitza Stojanovic &amp; Lee Freitag</td>
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