

OCEANS '13 MTS/IEEE San Diego Abstract Topics

OCEANS '13 MTS/IEEE San Diego - Topics and Themes

SAN DIEGO - AN OCEAN IN COMMON

- SD.1 Deepest Ocean Operations
- SD.2 San Diego Maritime History
- SD.3 Wrecks to Reefs
- SD.4 50 Years of Marine Technology
- SD.5 Government / Industry / Academia Synergy
- SD.6 Ocean Gliders: Technology and Applications
- SD.7 Marine Security and Defense

OCEANS '13 MTS/IEEE San Diego - OCEANS Conference Core Topics

1.0 UNDERWATER ACOUSTICS AND ACOUSTICAL OCEANOGRAPHY

- 1.1 Sonar and transducers
- 1.2 Calibration of acoustic systems and metrology
- 1.3 Sound propagation and scattering
- 1.4 Acoustical oceanography
- 1.5 Geoacoustic inversion
- 1.6 Bioacoustics
- 1.7 Seismo-acoustics
- 1.8 Ocean noise
- 1.9 Signal coherence and fluctuation

2.0 SONAR SIGNAL / IMAGE PROCESSING AND COMMUNICATION

- 2.1 Sonar signal processing
- 2.2 Array signal processing and array design
- 2.3 Model-based signal processing techniques
- 2.4 Vector sensor processing
- 2.5 Synthetic aperture (active and passive)
- 2.6 Classification and pattern recognition (parametric and non-parametric)
- 2.7 Sonar imaging
- 2.8 Acoustic telemetry and communication
- 2.9 Biologically inspired processing

3.0 OCEAN OBSERVING PLATFORMS, SYSTEMS, AND INSTRUMENTATION

- 3.1 Automatic control
- 3.2 Current measurement technology
- 3.3 Oceanographic instrumentation and sensors
- 3.4 Systems and observatories
- 3.5 Buoy technology
- 3.6 Cables and connectors
- 3.7 Marine geodetic information systems

4.0 REMOTE SENSING

- 4.1 Air / sea interaction
- 4.2 Lidar
- 4.3 Passive observing sensors
- 4.4 Coastal radars
- 4.5 Ocean color and hyperspectral measurements
- 4.6 Airborne and satellite radar and SAR
- 4.7 Operational observation
- 4.8 Sensor synergy
- 4.9 Space systems

5.0 OCEAN DATA VISUALIZATION, MODELING, AND INFORMATION MANAGEMENT

- 5.1 Access, custody, and retrieval of data
- 5.2 Data visualization
- 5.3 Numerical modeling and simulation
- 5.4 Marine GIS and data fusion
- 5.5 Information management
- 5.6 Data assimilation

6.0 MARINE ENVIRONMENT, OCEANOGRAPHY, AND METEOROLOGY

- 6.1 Oceanography: physical, geological, chemical, biological
- 6.2 Marine geology and geophysics
- 6.3 Hydrography / seafloor mapping / geodesy
- 6.4 Hydrodynamics
- 6.5 Marine life and ecosystems
- 6.6 Meteorology
- 6.7 Pollution monitoring
- 6.8 Mineral resources

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7.0 OPTICS, IMAGING, VISION, AND E-M SYSTEMS

- 7.1 Imaging and vision
- 7.2 Beam propagation
- 7.3 Optical sensors and adaptive optics
- 7.4 Marine optics technology and instrumentation
- 7.5 Holography and 3D imaging
- 7.6 Optical communication
- 7.7 E-M sensing

8.0 MARINE LAW, POLICY, MANAGEMENT, AND EDUCATION

- 8.1 Coastal zone management
- 8.2 Ocean economic potential
- 8.3 Marine law and policy
- 8.4 International issues
- 8.5 Marine safety and security
- 8.6 Law of the Sea and UNCLOS
- 8.7 Ocean resources
- 8.8 Marine education and outreach
- 8.9 Marine archaeology

9.0 OFFSHORE STRUCTURES AND TECHNOLOGY

- 9.1 Ocean energy
- 9.2 Ropes and tension members
- 9.3 Offshore structures
- 9.4 Marine materials science
- 9.5 Marine salvage
- 9.6 Diving
- 9.7 Pollution clean-up and pollution remediation
- 9.8 Deepwater development technology
- 9.9 Seafloor engineering
- 9.10 Ocean exploration

10.0 OCEAN VEHICLES AND FLOATING STRUCTURES

- 10.1 Vehicle design
- 10.2 Vehicle navigation
- 10.3 Vehicle performance
- 10.4 Autonomous underwater vehicles
- 10.5 Manned underwater vehicles
- 10.6 Remotely operated vehicles
- 10.7 Dynamic positioning
- 10.8 Moorings, rigging, and anchors
- 10.9 Naval architecture

11.0 OTHER

- 11.1 Other