



5-7 November 2012
Kuala Lumpur, Malaysia

1ST CALL FOR PAPER
"Linking Expertise, Synergising Technologies"



This conference marks the successful continuation of our three previous conferences in 2006, 2008 and 2010. USYS'12 aims to provide a platform for researchers, scientists, engineers, academicians, as well as industrial professionals from all over the world to share, discuss and disseminate their current R & D activities and experiences related to the field of underwater system technology, including relevant theories as well as applications.

USYS'12 will include an industrial track which will be delivered by industrial players from various relevant industrial sectors. The conference focuses on exploring new technology and approach to utilize the vast resources of the oceans, developing new engineering strategies for the preservation of the oceans eco-system, as well as providing a specialized forum for discussing the future of underwater system technology. USYS'12 will be held in Kuala Lumpur, as to provide a central meeting point with world-class conference facilities.

TOPICS

USYS'12 is seeking original, unpublished submissions for oral or poster presentation. The topics of interest are, but not limited to:

Underwater Vehicle Technology

- Underwater Vehicle Platform – ROV, AUV and Hybrid
- AUVs Docking and Retrieval System
- Underwater Vehicle for Shallow Water
- Underwater Vehicle for Deep Water

Artificial Intelligent Subsea System

- Vision System for Underwater Application
- Adaptive Path Planning and Navigation for AUV
- Advanced Underwater Object Ranging and Tracking
- Intelligent Navigation Guidance and Obstacle Avoidance

Control Systems

- Underwater Robotic Arm
- Intelligent Task-Oriented Control Architecture
- Simultaneous Localisation and Mapping (SLAM)

Software Engineering and Simulation

- Virtual Collaborative Simulation Software
- Predictive Virtual Environment
- Seabed Mapping Techniques

Ocean Science and Engineering

- Ocean Structure
- Marine Biology
- Fishery Technology
- Climate Change

Subsea Applications

- Underwater Communication System
- Non-acoustic Sensors for Marine Environment
- Renewable Energy Sources
- Electric Propulsion System
- Battery Storage System

Underwater Acoustics

- Imaging Techniques
- Sensors and Instrumentation
- Acoustic-based Communication
- MEMS-based Systems

Industrial Applications

- Underwater Inspection and Mapping
- Pipeline Tracking & Maintenance
- Deep-water Structure

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SUBMISSION PROCEDURE

Papers must be written in English and should describe original work, which has not been published or being reviewed for other conferences. Please submit the extended abstract in .doc or .pdf format limited two pages. Papers will be published in the conference proceedings only if at least one of the authors is officially registered.

Selected papers will be published in The International Journal of Electrical, Electronic Engineering and Technology and NISCAIR Research Journal.

IMPORTANT DATES

Deadline for extended abstract : 1 March 2012
 Notification of Acceptance : 1 May 2012
 Submission of camera ready manuscript : 1 August 2012

ORGANISED AND SUPPORTED BY:

