

The First International Workshop on Ubiquitous UnderWater acoustic-Sensor Network 2007(UUWSN07)

Taipei, Taiwan, December 17-20, 2007

<http://bic.kookmin.ac.kr>

In conjunction with the 2007 International Conference on Embedded and Ubiquitous Computing (EUC 2007)

Call for Paper

<http://www.cs.ccu.edu.tw/~shiwulo/euc07/>

Topics

Topics of particular interest include, but are not limited to:

- Embedded Platforms for UW-ASN and USN
- Available acoustic communications
- Channel modeling and performance analysis
- Network protocols in UW-ASN, e.g., PHY, MAC and Routing
- Security, privacy, and robustness
- Autonomic networking in UW-ASN
- Underwater vehicle and surface-floating devices
- Reliable Communication in underwater
- Network architecture design
- Underwater localization and knowledge acquisition
- Power management scheme
- Practical hardware and software platform including data storage and management
- Modeling, management and simulations
- Novel applications
- Other Related Issues on Ubiquitous Underwater Sensor Network and pure Sensor Network
- Simulation and testbed, case studies

Organization

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Overview / Scope

Underwater Acoustic Sensor Network(UW-ASN) have a lot of potential application areas such as ocean monitoring and disaster prevention. Whatever more than two-third of the surface of the earth is covered with the water including oceans, river and lake, the oceans remain one of the last frontiers to be a treasure-house of resources. Oceans serve as the main arteries of transportation between continents, food supplier and natural resources retrieval such as oil and natural gas. Recently, by researchers having a lot of studies for Underwater Acoustic Sensor Network (UW-ASN), they try to apply sensor network concept in underwater environments to utilize in field of practical use such as resource inquiry, pollution supervision and catastrophe prevention.

Ubiquitous Underwater acoustic sensor network (UW-ASN) is new area of ubiquitous sensor networks in underwater environments which has challenges to be overcome such in long propagation delay resulting from low speed of sound propagation, severely limited range-dependent bandwidth, attenuation and time-varying multipath propagation. All the above distinct features of Ubiquitous Underwater acoustic sensor network (UW-ASN) give birth to new challenges areas for every level of the network protocol suite.

This workshop will support an opportunity for industry and academic professionals to discuss the latest issues and progress in the area of UW-ASN. The workshop will publish high quality papers which are closely related to the various theories and practical applications in UW-ASN. Furthermore, we hope that this workshop will provide us with a good chance to share creative ideas regarding UW-ASN with other researchers and engineers from institutions around the world.

Proceedings

Each paper submitted will be reviewed by at least two referees in the relevant areas. Accepted papers, after revision according to the referee comments, will be included in the conference proceedings, which will be published by [Springer-Verlag](http://www.springer.com) in Lecture Notes in CS(LNCS) as part of the [LNCS/LNAI](http://www.springer.com) series. At least one author of accepted papers must register and present the paper at the conference.

A paper must be written in English and must be no longer than 8 pages, following Springer-Verlag's LNCS manuscript guidelines, available at <http://www.springer.com/comp/lncs/authors.html>. Only electronic submission (PostScript or PDF format) is accepted, and the submission must be made by workshop guideline.

Contact

For further information concerning this workshop, please contact shpark21@kookmin.ac.kr.

Important Dates

Submission Deadline : 24 June 2007
Acceptance Notification : 6 August 2007
Camera-ready : 4 September 2007
Author Registration : 4 September 2007