



# CALL FOR PAPERS

**ICAUCNS 2020**  
**Feb 10-11, 2020**  
**Barcelona, Spain**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICAUCNS 2020 : International Conference on Applications of Underwater Communication and Networking Systems is

the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Applications of Underwater Communication and Networking Systems. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Underwater wireless signals:

acoustics, optics, magnetic induction, electromagnetic wave, and so on

Underwater channel modeling, estimation, and characterization

Underwater communication physical layer solutions: synchronization, signal processing, modulation, transceiver and modem designs, link budget, and so on

Underwater networking solutions: medium access control, routing/forwarding, reliable data transfer, congestion control, security, self-organized networking, and so on

Underwater network and system architecture design: proto-type, testbed, and platform

Underwater communication traffic engineering: traffic modeling, packet/circuit call management, quality of service (QoS), and so on

Underwater communication supported by emerging IT technologies such as IoT, machine learning, cloud computing, big data, and so on

Underwater cellular communication: channel allocation, handoff, signaling procedure, mobility management, and so on

Underwater robotics: navigation, tracking, localization, power, communication, and networking  
Demonstration of experiment results: field trial, measurement, and case study

Applications of underwater communication and networking systems: aquaculture, environment data collection, archeology, search and rescue, video/image streaming, AUV/UUV management, remote monitoring and control, human operator interaction, disaster detection and early warning, and so on