

IEEE Internet of Things Journal
Special Issue on
Internet of Things for Smart Ocean

The oceans cover 71 percent of the Earth's surface. There has been a surging amount of data and information acquired from different maritime mobile terminals, such as vessels, cargo, buoys, and offshore platforms, etc. The demand for high-speed and ultra-reliable maritime communications is thus growing rapidly. How to transmit, store and manage the big maritime data effectively has become a research hotspot. The Internet-of-things (IoT) for Smart Ocean is emerging in marine transportation, production safety, emergency rescue and environmental protection, etc. It is expected that the capacity, safety and efficiency of connected vessels and other maritime mobile terminals can be dramatically enhanced by employing the IoT technologies. This calls for novel approaches and consideration of the deployment of next generation maritime communication networks, particularly for the automated vessels. Therefore, it is essential to pursue research on new theories, architectures, and technologies to exploit the capability that is delivered by IoT for Smart Ocean to form a more efficient and intelligent maritime communication system.

Topics of interests include (but are not limited to) the following:

- Innovative IoT techniques to connect maritime mobile terminals
- Network architectures and infrastructures of IoT for Smart Ocean
- Smart Ocean IoT system optimization and deployment techniques
- IoT for E-navigation and Smart Shipping
- IoT-based solutions for enhancing maritime transmission efficiency and extending broadband coverage
- IoT-based sensing and recognition in maritime activities
- Testing and verification of connected maritime mobile terminals
- IoT-based navigation and localization systems
- AI and deep learning approaches for IoT-enabled connected vessels
- Marine radio resource management and distribution for IoT-enabled connected vessels
- Underwater communication and networking technologies of IoT for Smart Ocean
- Security of IoT for Smart Ocean

Important Dates:

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Submission:

All original manuscripts or revisions to the IEEE IoT Journal must be submitted electronically through IEEE Manuscript Central, <http://mc.manuscriptcentral.com/iot>. Author guidelines and submission information can be found at <http://iee-iotj.org/>.

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