



In conjunction with IEEE WF-IoT 2023

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Description:

This special session provides a forum for identifying the valuable knowledge on AI and IoT applied to all layers of the maritime IoT architectures and applications facilitated by the power of AI and IoT. The topics start from microcontrollers and extend to powerful GPU servers with the objective of enhancing data sensing, collecting, transmitting, storage, processing, analysis, and visualization. We welcome contributions including both theoretical and practical studies on use cases of LPWAN and 5G/6G-enabled heterogeneous networks, implementations and design of maritime IoT systems, novel techniques improving the transmission and reception in maritime environments or new optimization frameworks to offload multi-modal data at the shore/offshore through other vessels or other autonomous vehicles.

Topics of Interest:

This workshop mainly focuses on: - increasing the awareness of the maritime environment friendly applications and providing useful insights to adapt IoT technologies in the maritime sector; new maritime-related datasets and algorithms leading to the maritime IoT applications improvement; - emphasizing the use and the evaluation of the two complementary communication technologies - LPWAN and 5G/6G – in real deployments and/or simulations; - providing useful methods of maritime IoT testbeds evaluation; - maritime IoT implementations built upon state-of-the-art hardware devices.

The main topics are related to (but not limited to):

- Maritime IoT and Internet of Ships: deployments and testbeds.
- ML/AI techniques, uni-modal and multi-modal datasets and implementations in maritime IoT applications.
- Maritime IoT communication technologies: from LPWAN (NB-IoT, LTE-CAT M1, LoRa/LoRaWAN/SigFox) to 5G/6G and satellite communications.
- Maritime IAI-enabled IoT architectures and implementations.

Paper Submission:

All papers must be submitted through eWorks. You must choose the workshop track (Spes-09) when submitting your paper in order to be considered for this workshop. The paper should be up to six (6) pages in length. The conference allows up to two additional pages for a maximum length of eight (8) pages upon payment of extra page fees once the paper has been accepted.

The paper can be prepared using the template available through the Authors / Proposers tab from the WF-IoT conference website main page at:

<https://wfiot2023.iot.ieee.org>.

An alternative is to use the IEEE Word or Latex tools that can be found through:

<https://conferences.ieeeauthorcenter.ieee.org/write-your-paper/authoring-tools-and-templates/>.

Authors of accepted papers will need to provide a final version of your paper in PDF format and upload it by the camera-ready deadline and complete the assignment of copyright and release form. For your paper to be included in the proceedings and published in IEEE Xplore, at least one author is required to register for WF-IoT 2023 by the deadline.

More information on the workshop:

<https://wfiot2023.iot.ieee.org/lpwan-and-5g6g-enabled-artificial-intelligence-things-applications-internet-ships-and-maritime>

Important Dates:

Paper submission: Jul 30, 2023
Notification of acceptance: Aug 21, 2023
Camera-ready submission: Sep 29, 2023
Presentation submission: Oct 2, 2023

