

The 9th IEEE World Forum on the Internet of Things (IoT)

12–27 October 2023 // Aveiro, Portugal

Aveiro Congress Center

Hybrid: In-Person and Virtual

The Blue Planet: A Marriage of Sea and Space

Sponsored by the IEEE IoT Technical Community



INSTRUCTIONS FOR PEER REVIEWED PAPER SUBMISSIONS

1. Considerations

1.1 The 9th IEEE World Forum on the Internet of Things (WF-IoT2023) seeks submissions for original, novel, and relevant technical papers. The papers should address the Internet of Things (IoT), its theoretical and technological building blocks, the applications that drive the growth and evolution of IoT, operational considerations, experimentation, experiences from deployments, and the impacts of IoT on consumers, the public sector, and industrial verticals. The theme for the World Forum is “The IoT contribution towards a Blue Planet: The marriage of Sea and Space”. In recognition of the rapid growth of IoT across the world and adoption across almost all verticals we also encourage the submission of multi-disciplinary content. Each submission should identify with a Track as designated below. The listing of subjects associated with each track is not comprehensive – please pick the Track that is most compatible with your area of interest.

Track	Topics and Subjects Important to IoT and the World Forum Theme
Tech-01	Applications and Use Cases Aquaculture, Agriculture, Fisheries control, Sea ports, Space, Tourism, Entertainment, Energy, Healthcare, Industry & Manufacturing, Smart Cities, Smart Buildings, Vehicular, Sustainability, Unmanned Aerial Vehicles, Deep sea marine services, Natural Resource Management, Transportation, Construction, Critical Infrastructure Protection, and other applications.
Tech-02	Big Data Algorithms, Hardware and Software for Big data, Artificial Intelligence and Machine Learning Technologies, Data Monetization, Federated Learning.
Tech-03	Computing Cloud, Fog, Edge and Embedded Computing, High Performance Computing, Data Storage, Operating Systems, Hypervisors, Orchestration, Space-based platforms, Data caching, Content delivery, Software platforms, Localization techniques.
Tech-04	Connectivity IoT Communication Protocols, Wireless Communications, Internet, Mobility, Software Defined Networking, Network Virtualization, Wireless Sensor Networking, Drone assisted communications, Deep Space Communications, Satellite Communications, Maritime Communications, Underwater Communications, Terahertz Communications, Ultra-reliability and Low latency, IoT in Fifth and Sixth generation networks, Network intelligence, Internet of Nano Bio Things.
Tech-05	Components Circuits, Devices, Electronic Systems, Signal processing.
Tech-06	Sensors and Remote Detection Sensors, Radar, Video Analytics, Lidar, Medical Imaging, Tactile Sensing, Thermal Sensing, mmWave and Terahertz sensors, Space Based Sensor Systems, Chemical Sensors, Multisensory systems.
Tech-07	Human-machine interfaces

	Metaverse, Virtual Reality, Augmented Reality, Extended Reality, Voice interfaces, Tactile and Touch based Interfaces, Quality of Experience (QoE).
Tech-08	Operation technologies Digital twins, Robotics, Control systems, Platforms, Automation, Sea ports logistics, Supply Chains.
Tech-09	Energy efficiency Energy harvesting techniques, Energy-efficient communication protocols, Energy efficiency and QoS tradeoff, Energy-efficient space communication technologies, Energy Storage.
Tech-10	Security and Privacy IoT Cybersecurity, Privacy and Trust, Blockchains, Encryption Methods, Homomorphic Systems, Implementations, Smart contracts, Vulnerability and Attack Vector Analysis, Secure network protocols, Space cyber security.
Tech-11	Standards and Regulation IoT Standards for Space-air-ground-underwater communications and Multi-access edge computing. IoT Policy and regulatory aspects.
Tech-12	Impact IoT impact on the Sustainable Development Goals (SDGs), IoT impact on the Society, IoT impact on the Engineering Profession (Education, Metrics, Training).

1.2 Every submitted manuscript must:

- Provide a clear statement of the problem or issue that the paper is addressing and the proposed solution or conclusion.
- Clearly explain the significance and impact of the contribution to the area of research that the paper addresses.
- State the novelty and distinction of the current manuscript relative to previously published studies and the relevance of the work to either the theoretical foundation of the subject or to the practical implementation of the solution or conclusion.
- Provide relevant and recent citations from the most closely related work in the field.
- Make sure that the submission conforms to editorial standards and is correct for: spelling, grammar, punctuation, conciseness, and vocabulary.

1.3 Papers submitted must be original. All papers will be checked for similarity and plagiarism using CrossCheck. CrossCheck compares submitted articles against a database of millions of published scholarly papers, and billions of web pages, and provides a detailed report that highlights any similarity to previously published content within the submission.

1.4 Once the paper you submitted has been reviewed and accepted you will be notified about uploading a final version of the paper for publication in the Proceedings and IEEE Xplore.

1.5 All accepted papers will be assigned to a Technical Track Session. We expect that the presenters for each accepted paper will be present for the duration of their assigned Sessions. Each Session consists of 10-minute presentations of the synopsis of the accepted papers, using Power Point or PDF formats, and a moderated discussion with Q&A from the Session audience. It is one of the goals of the conference to provide a high level of interaction among the participants. You, or one of your co-authors, must be present for the duration of your assigned Technical Track Session for your paper to be published. **The Technical Track Sessions are scheduled for the week starting on 16 October 2023 and ending on 20 October 2023.**

1.6 In addition to the paper, you will also be expected to provide and upload a full copy of your full presentation ahead of the conference, and a short synopsis of the presentation. The full presentation and the

synopsis will be made available ahead of the conference in **WHOVA**. The synopsis of the presentation is expected to be delivered during the scheduled session for each accepted paper. The sessions will be recorded and made available subsequent to the conference. Each of the sessions will contain a discussion period, Q&A from the attendees, and will be moderated by a session chair.

1.7 At least one of the authors must register at the full conference rate (in-person or virtual) for the paper to be included in the proceedings and IEEE Xplore. A single full conference rate registration allows the registrant up to two (2) papers.

1.8 The participation in the conference and the presentation of a paper in a Technical Track Session can be done in person in Aveiro, Portugal, or virtually live online.

2. Instructions

2.1 These instructions apply to all technical peer reviewed paper submissions in response to the General Call for Papers submitted through eWorks. **The deadline for all paper submissions is 30 July 2023, with notification of acceptance on 21 August 2023. All final paper submissions must be completed and uploaded by 25 August 2023. The accompanying presentations (full presentation and synopsis) to be uploaded by 2 October 2023.**

2.2 Please be prepared with all the material that you will need to make the paper submission. That includes information about you as the lead author as well as information about the other authors of the paper.

2.3 The information about you consists of: (1) Name and Salutation; (2) Institutional Affiliation; (3) Location; (4) Contact Information; (5) Your IEEE Membership Number if you are a member and your ORCID Number if you have one.

2.4 The information about your co-authors also consists of: (1) Name and Salutation; (2) Institutional Affiliation; (3) Location; (4) Contact Information; (5) Their IEEE Membership Number if they are a member and their ORCID Number if applicable.

2.5 You must choose the Track (Tech-01, Tech-02,Tech-12) that best describes the topic of your paper using the table in the section above if you are submitting a Technical Peer Reviewed Paper.

2.6 In addition, we request that you also provide: (1) the title for the paper; (2) an abstract of 250 words or less; (3) key words that are indicative of the content of the paper; and (4) upload a draft version of the paper in Word Format (.docx) or Latex(.tex) using the template available through the Authors/Proposers tab from the conference website main page at: <https://wfiot2023.iot.ieee.org>. An alternate 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/>. Please follow the link under the **Write** heading which will allow you to download and access both Word and Latex Conference templates for creating your paper.

2.7 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.

2.8 When you submit your paper you will be given a unique **Paper ID** number (**PID**). Please keep a record of the PID. You will need to use the PID to upload required updates to your paper, changes in any author information, and for accompanying presentations and recordings. The **Paper ID** number will also be used to identify your paper in the main conference tool, **WHOVA**, that will be your online access to the schedule and conference events.

Following Paper Acceptance

2.9 You will need to provide a final version of your paper in PDF format and upload it by the **25 August deadline** and complete the assignment of copyright and release form. For your paper to be included in the proceedings and published in IEEE Xplore, it is required that you please register for WFOT2023 by this deadline. Please use the checklist below to make sure that your final version complies with all requirements for publication.

Checklist for Final Submission	
Paper Size: US Letter (8.5" x 11") or A4 (210mm X 297mm)	Fonts: Embed ALL fonts in your PDF file. Avoid the use of Type 3 fonts.
File Format: Adobe PDF (.pdf)	Do NOT page number your paper
Do NOT apply security settings to your PDF file	Allowed File Size: 20.0 MB
<ul style="list-style-type: none"><i>Note: Deviations from the above paper specifications could impede the review of your paper and result in rejection.</i>	

2.10 Once you have uploaded the final version of your paper, have registered for the conference, and are attending in person, you will be issued a visa letter if you require one. Please make sure that you check this option during the registration process.

2.11 Please upload a copy of your full presentation in PPTX or PDF format with a 16x9 aspect ratio by the **25 September 2023 deadline**. The full presentation should be in the form of a slide deck that represents an explanation of your paper and could be delivered in ~30 minutes. The full presentation will be made available to the attendees of your assigned session prior to the conference. The **deadline** for your synopsis presentation (PPTX or PDF format with a 16x9 aspect ratio) is **25 September 2023**. If you have an accepted peer reviewed technical paper, the full presentation is limited to 30 minutes in length, and the paper synopsis presentation for your Technical Track Session should be 10 minutes in length. If you are presenting in a Workshop, Special Session, Industry Forum, or the Ph.D./Masters Forum please follow the instructions for the length of the presentation from the organizers. **Please limit the size of your full presentation file to 50MB.**

2.12 If you have an accepted technical peer reviewed paper, you or one of your co-authors will also need to attend the discussion of your paper in a Technical Track Session as scheduled in the program during the week of 16 October 2023. **If you or one of your co-authors does not attend the assigned track session, your paper will not be published.**

If you need any further clarification or information, please contact one of the Technical Committee Chairs:

Assoc. Professor Ahmed Abdelgawad, Central Michigan University, Mount Pleasant Michigan, USA:
abdel1a@cmich.edu

Professor Augusto Casaca, INESC-ID/ INESC INOV, Lisboa, Portugal augusto.casaca@inesc-id.pt

Professor Tony Q.S. Quek, Singapore University of Technology and Design, Singapore: tonyquek@sutd.edu.sg

Professor James Bellingham, Director, Institute for Assured Autonomy, Johns Hopkins University, Baltimore, MD USA: jbellingham@jhu.edu