

The 8th IEEE World Forum on the Internet of Things (IoT)

26 October–11 November 2022 // Yokohama, Japan

Pacifico Yokohama Convention Center

Hybrid: In-Person and Virtual

Sustainability and the Internet of Things

Sponsored by the Multi-Society IEEE IoT Initiative

Instructions and Considerations for PhD/Masters Forum Paper Submissions

1. Considerations

- 1.1** The IEEE WF-IoT 2022 technical program will provide an opportunity for M.Sc./Ph.D. students in the fields of the Internet of Things, supporting technology areas, and IoT applications, to present their thesis/dissertation research (that has been completed in the last year or will be completed in the near future), including work in progress within the topics of interest for WF-IoT 2022. The Forum provides a unique opportunity for students to present their M.Sc./Ph.D. work to the conference attendees, meet with their peers and experts in the field, and most importantly, receive feedback on their work.
- 1.2** **The deadline for PhD/Masters Forum submissions is June 13th, 2022.**
- 1.3** To encourage interaction among the M.Sc./Ph.D. students and researchers from academia, industry, and government, the forum will be organized as a hybrid event (in person and virtual live online) with multiple sessions. All the submitted M.Sc./Ph.D. Forum papers will be reviewed, and the accepted papers will be published in the WF-IoT 2022 proceedings and in IEEE Xplore.
- 1.4** The focus of the IEEE IoT World Forum is the event's theme: "Sustainability and the Internet of Things" and we especially encourage submissions on this topic as it applies to applications, the technologies important to IoT, and the societal impacts.
- 1.5** The format of the PhD/Masters Forum will include presentations by students, lectures, and panel discussions. If the conditions allow it, the Forum may also include poster presentations.
- 1.6** The IEEE WF-IoT 2022 will also include a best student paper contest, based on the highest rated works submitted as part of the Technical Peer Reviewed Paper portion of the program where a student is the lead author. The student paper contest will be held as a designated hybrid session.
- 1.7** The table below is a non-exhaustive list of some of the topics that are covered at the conference.

Topics and Subjects Important to IoT and the World Forum Theme
Applications and Use cases for IoT (Agriculture, Entertainment, Energy, Environment, Healthcare, Industry & Manufacturing, Power, Research, Robotics, Smart Cities, Smart Home, Transportation....)
Artificial Intelligence and Machine Learning Technologies (including algorithms, applications hardware, software, and systems aspects of AI implementation and operation)

Bioengineering, Healthcare, Medical Devices, Practice of Medicine, Public Health, Research in Healthcare and Physiology, and Social Determinants of Health
Ad-hoc Communications, Broadcasting, Cellular Communications, Future Systems, Internet, Mobility, Multi-media, Networking. Also, Platform, Space Based, Wireless, and Wide Area Communications.
Computing and Processing (Embedded, Personal, Edge, Fog, Cloud, and HPC), Data and Data Storage, Aspects of Computing (Algorithms, Hardware, Software, Operating Systems....)
Cybersecurity, Security, Privacy and Trust (Assessments, Blockchains, Encryption Methods, Homomorphic Systems, Implementations, MPC, Vulnerability and Attack Vector Analysis.....)
General Topics of Interest to Engineers and General Topics of Interest to the Internet of Things (IoT), Sustainability Development Goals (SDGs), Societal Impacts of IoT
The impacts of IoT on the Engineering Professions (Education, Environment, Knowledge, Metrics, Organization, Process, Sustainability, Training...), and Sustainable Development Goals (SDGs)
Signal Processing and Analysis, Fields, Waves, and Electromagnetics, Components, Circuits, Devices and Electronic Systems
Systems Engineering, Integration, and Operation Technologies, Platforms, Frameworks, Autonomy and Automation, Digital Twins, Environmental Engineering,
Theoretical Foundations, Design, Architectural Aspects, Reference Designs, Standards, Autonomy, and Automation, Digital Twins, Control Systems, and Robotics, Management Systems
Results from Experiments, Demonstration and Trials, Shared Experiences from Deployments, Results of Surveys. Policy and Regulatory aspects of IoT.

1.7 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, to put the contribution in context.
- Make sure that the submission conforms to editorial standards and is correct for: spelling, grammar, punctuation, conciseness, and vocabulary.

1.8 Papers submitted must be original and should not have significant content from any of the author's prior works. 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.

1.9 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.

1.10 The PhD/Masters Forum Sessions will be scheduled during the week of October 31st – November 4th, 2022.

2. Instructions

2.1 These instructions apply to all Ph.D./M.S. Forum papers submitted through **eWorks**. **The deadline for all paper submissions is June 13th, 2022, with the notification of acceptance on July 8th, 2022. All final paper submissions must be completed and uploaded by July 31st, 2022. The accompanying presentation and recording must be uploaded by October 10th, 2022.**

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 Phdm-01 designation as the choice of your Track designation.

2.6 In addition we request that you also provide: (1) the title for the paper; (2) an abstract of 200 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://wfiot2022.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 two (2) pages in length.

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.

Following Paper Acceptance

2.9 You will need to provide a final version of your paper in PDF format and upload it by the **July 31st, 2022, deadline** and complete the assignment of copyright and release form. For your paper to be included in the

proceedings and published in IEEE Xplore please register as required 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
<i>Do NOT apply security settings to your PDF file</i>	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 and registered and are attending in person, you will be issued a visa letter if you require one. Please make sure that you check of this option during the registration process.

2.9 Please upload a copy of your presentation in PPTX or PDF format with a 16x9 aspect ratio. This will need to be uploaded by the **October 10th, 2022, deadline**. The presentation should be 10 minutes in length, and the paper presentation for your PhD/Masters Forum Session should also be 10 minutes in length. **Please limit the size of your file to 20MB.**

2.10 The deadline for uploading a recorded video of the presentation that accompanies your paper is **October 10th, 2022**. The recorded file must be in MP4 Format and should be no longer than 10 minutes in duration. The time allocated for your full presentation is the same as for the 10 minutes you will have for the presentation during your assigned PhD/Master Forum Session.

Audio/Video File Requirements

- 1mbps bitrate: To check the bit rate, right click on the file name, click on properties, go to the details tab, and look for total bitrate.
- Resolution = maximum 720p HD
- The length of the presentation must comply with the specification of your session.
- Please use the following naming convention: PID.pptx, PID.pdf, PID.mp4, where PID is your Paper ID, the code that was assigned to your paper when you received your acceptance email.

Audio/Video File Tools

There are several video conferencing tools available to easily record a presentation. In this method, you can show your face via webcam (if you would like) and display your slides as you talk. You can use any meeting software if you get a good quality recording, and your final file is in the MP4 format.

Here are some links to instructions on recording a meeting on common platforms:

- WebEx: [Video Conferencing – Record a Cisco Webex Meeting](#)

- Skype: [Skype for Business: Recording a Meeting | Information Technology Services | Bemidji State University](#)
- Google Meet: [Record a video meeting – Meet Help](#)
- Zoom: [Local Recording – Zoom Help Center](#)
- Gotomeeting: [How to Record a GoToMeeting Session | Techwalla and How to Convert and Open the GoToMeeting Recordings](#)
- Microsoft Teams: [Record a meeting in Teams – Office Support](#)
- You can also use the two-step method covered below:

- [Create Voice Over Power point](#) and [convert to MP4](#)

Audio/Video File Recording Tips

- Use as quite an area as possible
- Avoid areas that have echo
- Rooms should be small
- Sound dampening with carpeting, curtains, furniture
- Strong Wi-Fi connection
- Good headset with microphone close to mouth BUT away from direct line of mouth to reduce “pops”. Avoid using default built-in microphone on computer.
- Do a test recording of a couple of minutes and review the sound and picture quality, MP4 format, and bit rate before recording the entire presentation. Adjust if needed

2.11 If you have an accepted technical peer reviewed paper, you or one of your c-authors will also need to attend the discussion of your paper in the PhD/Master Forum Session as scheduled in the program during the week of November 7th-11th, 2022. **If you do not attend the assigned session your paper will not be published.**

If you need any further clarification or information, please contact one of the PhD/Masters Forum Committee Chairs:

Professor Vincenzo Piuri, University of Milan, Milano, Italy: vincenzo.piuri@unimi.it

Assoc. Professor Yuichi Ohsita, Osaka University, Suita Osaka, Japan: y-ohsita@ist.osaka-u.ac.jp