

# 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 Industry Forum Proposals*

### **1. Considerations**

- 1.1** IEEE World Forum Internet of Things (WF-IoT 2022) solicits proposals for Industry Forums that address the technical needs of Industry with clear and focused coverage of requirements for IoT solutions as well as new and emerging topics within the scope of the conference. WF-IoT Industry Forums enable researchers, developers and practitioners from academia and industry to learn about the latest technical developments across the IoT ecosystem and to exchange views on needs and requirements, emphasizing opportunities and challenges for the research community. **The deadline for proposal submissions is April 25th, 2022.**
- 1.2** Proposals should concisely describe the motivation, the content, and the structure of the Industry Forum. The Internet of Things, despite the current pandemic, has seen accelerating deployments across industry and the public sector. It has been driven by innovations from commercial organizations, university research groups and the maker community. User acceptance of network connected devices varies widely but actual deployments have certainly demonstrated commercial viability that is now driving R&D investment and new product and service offerings. Analysts in recent studies have indicated that despite delivery of value and many successes over 50% of IoT deployment projects fail. [<https://podgroup.com/74-of-companies-are-unsuccessful-with-iot-beecham-research-investigates-why-iot-projects-fail/> , <https://www.speedcast.com/blog-hub/2020/why-iot-projects-fail-and-what-you-can-do-to-prevent-it/> , <https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/iot-value-set-to-accelerate-through-2030-where-and-how-to-capture-it> .] These events have had significant media coverage and they present a reputational risk to the IoT with the potential for attendant negative consequences for acceptance of the IoT in the wider community.

It is therefore essential that there are open fora for the exchange of innovation, experience, and challenges among all members of the IoT community. Without such fora best practice cannot be established, proposals for standards cannot germinate, researchers cannot be directed and early mistakes in product deployment relating to reliability, user experience, availability, performance, and security will all be repeated many times over. Worst of all, the promise of IoT may be lost because

end users do not trust the technology or its proponents. To address these issues there will be an Industry Forum, as part of the 2022 IEEE World Forum on the Internet of Things as part of its technical program. This forum is intended for industrialists, academics and makers and is intended to encourage a dialog and active and vigorous exchange between all stakeholders to address exactly these issues.

**1.3** The format of an Industry Forum is a series of two hour Sessions on a specific subject, consisting of presentations, panel discussions, roundtables, and demonstrations. All speakers are directly invited by the organizers. Industry Forums do not include the submission of papers for publication. The Sessions are intended to be highly interactive and encourage Q&A from the audience as well as discussion led by the Session Chairs. The Industry Forums will be principally face to face, with the ability to accommodate remote participation live online as hybrid events. The Forum is planned as a series of panels, each devoted to a specific aspect of IoT, conducted as an open and collegiate exchange of information with the objectives to:

- Understand the limitations of current IoT knowledge to guide future research topics
- Share best practice for commercial IoT development, deployment and maintenance so early mistakes are not repeated many times over
- Highlight the risks that the IoT can expose so that these can be mitigated and avoided
- Create networks of excellence across the academic, maker and commercial communities to jointly push forward the boundaries of IoT science
- Reduce the knowledge transfer barriers between the academic, maker and industrial communities Panel presentation will be published after the event on the WF-IoT 2021 conference web site. Attendees are encouraged to form informal networks post event and the open sharing of contact information for that purpose will be highly encouraged.

**1.4** A non-exhaustive list of potential topics is included in the table below.

<i>Potential Topics for Industry Forums</i>	
Industry 4.0, Advanced Manufacturing	Security, Cyber-Security, and Privacy in IoT
Agriculture 4.0, Precision Agriculture	Cyber-Physical Systems and Automation
IoT over 5G/6G, and Global Satellite Networks	Smart Cities and Smart Society
IoT for the New Normal, The Future of Work	The Internet, IPv6, Mobile Communications
AI and Machine Learning, Semantic Technologies	Machine Vision, Connected Robotics
Cloud, Fog/Edge Computing, Networking and Storage	Neuromorphic computing and its application to IoT
Quantum Computing and IoT	Drone/V2X IoT Applications, Technologies
Autonomy and Automation, Robotics	3D Printing

Proposers are particularly encouraged to suggest thematic sessions that will be of interest to multiple stakeholder groups across the IoT community. Proposals that can act as ‘kickstart’ initiatives with the potential to lead to ongoing collaboration will be particularly well received.

**1.5 Industry Forum Sessions will be scheduled during the weeks of October 31st – November 4th, 2022, and November 7th – November 11th.**

## 2. Instructions

- 2.1** Please be prepared with all the material that you will need to make the proposal for an Industry Forum. That includes information about you as the Industry Forum Organizer (Chair) well as information about your Co-Organizers (Co-Chairs) and the proposed content for the Industry Forum.
- 2.2** To enter the submission please go to the **eWorks** website which can be reached from the authors/proposer's tab from the main conference website page at <https://wfiot2022.iot.ieee.org> and follow instructions for a proposal submission. **The deadline for submissions is March 28th, 2022.**
- 2.3** The information about you and your Co-Organizers 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; (6) A recent high resolution headshot photograph in JPEG format; (7) a short biography (up to 250 words).
- 2.4** The additional information we will need includes: (1) a title for the Industry Forum for which you are making the proposal; (2) a short abstract that describes the content of the Industry Forum; (3) Key Words that are descriptive of the topic covered by the Industry Forum; (4) Please upload a narrative description of the Industry Forum in Word (.docx) format. The narrative should be **limited to four (4) pages** and include:
- Title of Industry Forum
  - Abstract (250 words)
  - Description of the Industry Forum Proposal
    - *Objectives and motivation*
    - *Novelty, highlighting the technical innovations presented in this Industry Forum*
    - *Industry Forum content, indicating the topics that the Industry Forum will cover in detail*
    - *Tentative format timeline schedule for each session (Panels, Presentations, Round Table Discussions)*
    - *List of potential participants invited to be part of the Forum to whom you will issue invitations.*
    - *Industry Forum Length: 2 hours (1 session), 4 hours (2 sessions), 6 hours (3 sessions)*
    - *Intended audience*
    - *Prior history of the Industry Forum presentations and number of past attendees, if applicable*
- 2.5** You will be issued a unique **Proposal ID** number (**PID**) upon completion of your submission. Please retain a record of the number as it will be used for notification of acceptance or rejection and subsequent steps.

### ***Notification after Acceptance***

- 2.5** Once the proposal has been evaluated you will be notified whether the proposal has been accepted or rejected. Accepted proposals will be notified and assigned an Industry Forum identifier (Indf-01, Indf-02, ...Indf-10) and issued an invitation to organize the Industry Forum at the conference and further instructions.

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

**Honorary Chair Professor Russell Hsing**, National Chiao Tung University, Hsinchu, Taiwan: [thsing190@gmail.com](mailto:thsing190@gmail.com)

**Ken Hatano**, Chief Specialist, Toshiba Digital Solutions Corporation, Fuchu Tokyo, Japan: [ken.hatano@toshiba.co.jp](mailto:ken.hatano@toshiba.co.jp)