

# STANDARDS AND INTEROPERABILITY PLUGFEST (INTEROP)

*Plus IEEE 1451 Standards*



Sponsors: **IES Standards TC**  
Co-sponsors: **IES Industrial Agents TC,**  
**Industrial Informatics TC**

## WHAT

IES Standards **Interoperability and Plugfest, IEEE 1451 Standards** (Sensor Networks) **plus**

Technical working sessions on IES Standards development @ ISIE 2021

## OBJECTIVES:

- Provide the IES standards community with verification and validation platforms for the standards so the community can test their development of

their applications to these benchmarks, ensuring compliance and interoperability to their systems.

- The standards and platforms will provide compliance and interoperability to industrial applications in IES Fields of Interest
- Encourage industry partners to participate in IEEE Standards by providing verification and validation platforms for standards compliance and interoperability in the industry context.
- Provide demonstrations and prototypes for interoperability and standards.
- Goal of these platforms is to support users with interoperable and conformance tested approaches for their applications, by providing relatively easy initial start-up processes, allowing easy installation and configuration.

### **BENEFITS TO ISIE, IES**

Introduce ISIE 2021 conference participants with exposure to standards development efforts in IES, in collaboration with other societies, show and propagate the IES sponsored standards family and the progress in industrial electronics and IoT/IIoT/CPS harmonization.

**Long Term objective:** *Provide stable or permanent verification and compliance [Centers of Expertise \(COE\)](#) for industry and academia use, distributed globally under IES Standards support. (e.g. Europe, Asia, So. America, USA)*

### **PROGRAM ORGANIZERS:**

Allen Chen  
Dietmar Bruckner  
Kiyoshi Ohishi, ISIE General Chair

### **ADVISORS:**

H. Hashimoto, ISIE General Chair  
Victor Huang  
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### **DEMO ORGANIZERS:**

Antonio Espirito-Santo

### **STDS SESSION ORGANIZERS:**

Hiroaki Nishi  
Kim Fung Tsang

**PUBLICITY:** V. Huang

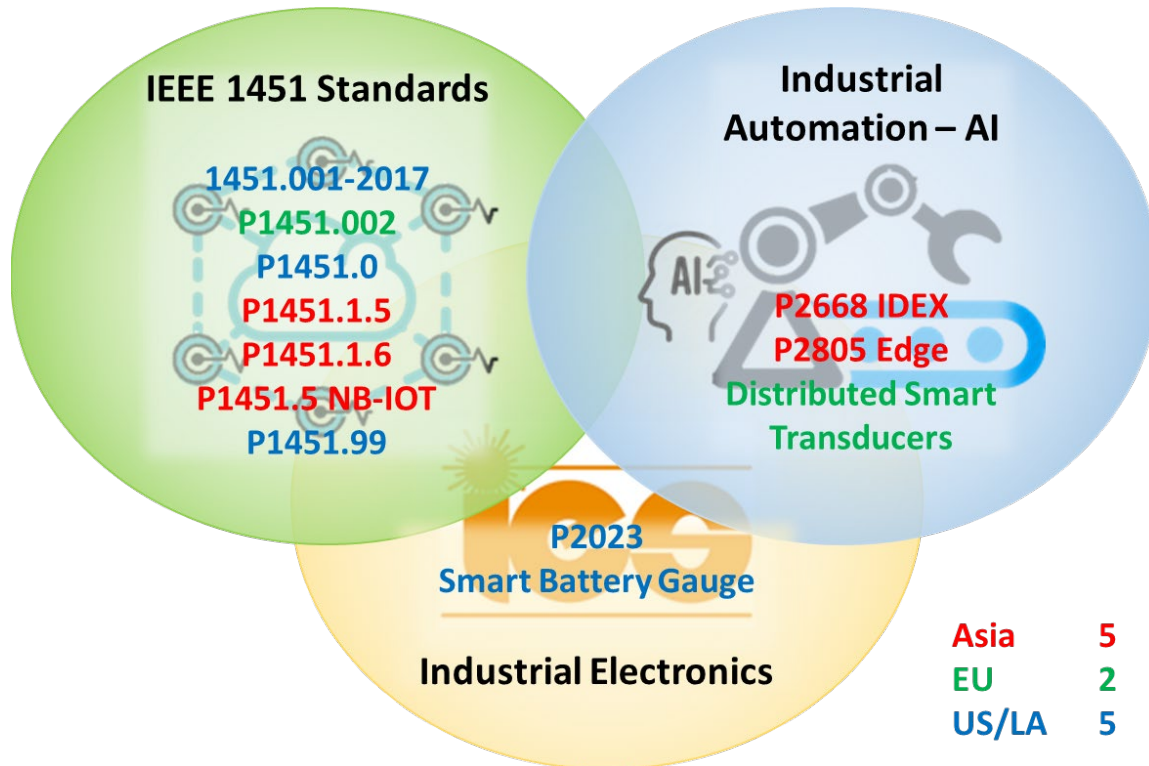
### **REGISTRATION:**

1. INTEROP Plugfest Only (Demos, F2F STDS sessions) : 25,000 JPY INTEROP Rate
2. Full ISIE Conference (includes INTEROP Plugfest) : Full regular ISIE fee

*Register using the ISIE registration section.*

## PROGRAM – VIRTUAL SESSIONS

### INTEROP PLUGFEST: PARTICIPANTS



## **PLUGFEST TECHNICAL SESSIONS (VIRTUAL):**

***All times set to ISIE 2021 Japan time***

***Day 1, Monday June 21, 2021, 12:30 PM – 2:30 PM***

***Session Chair: Allen Chen***

- |                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| 1. IEEE P1451.0 Standards       | <b>J. Schmalzel/ K. Lee</b> , NIST, USA           |
| 2. P2023 Digital Transformation | <b>L. Stogner</b> , Vincula Group, USA            |
| 3. P1451.5.X LPWAN              | <b>K. F. Tsang</b> , City University of Hong Kong |
| 4. P1451.1.6 MQTT               | <b>H. Nishi</b> , Keio University, Japan          |

***Day 2, Session 1, Tuesday June 22, 2021, 12:20 PM – 2:20 PM***

***Session Chair: K. F. Tsang***

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|---------------------------------------|-----------------------------------------------------------------------------|
| 5. IEEE1451.001-2017 Signal Treatment | <b>G. Monte</b> , U. Tecnological Nacional, Argentina<br><b>(WITHDRAWN)</b> |
| 6. Smart Battery Gauge                | <b>B. Balagopal</b> , NC State Univ, USA                                    |
| 7. P1451.1.5 SNMP                     | <b>J. Wu</b> (IMS), Shanghai JiaoTung U., China                             |
| 8. P2805 Edge Computing               | <b>W. Dai</b> , Shanghai JiaoTung U., China                                 |

***Day 2, Session 2, Tuesday June 22, 2020, 2:50 PM – 4:50 PM***

***Session Chair: Dietmar Bruckner***

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|-----------------------------------|-----------------------------------------------------------|
| 9. P1451.99 Harmonization         | <b>G. Kuppa</b> , IEEE India, India <b>(WITHDRAWN)</b>    |
| 10. Distributed Smart Transducers | <b>H-P. Bernhard</b> , J. Kepler U., Austria              |
| 11. P1451.002                     | <b>A. Espirito-Santo</b> , U. da Beira Interior, Portugal |
| 12. P2668 IDEX                    | <b>K. F. Tsang</b> , City University of Hong Kong         |