



# ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

Chicago | Illinois, November 3-6, 2024

## Special Session on Standards and Interoperability

### Organized and co-chaired by:

Prof. Antonio Esprito-Santo, University of Beira Interior, Portugal  
Dr. Allen Chen, Innovatech Solutions, USA  
Prof. Hiroaki Nishi, Keio Univeristy, Yokohama, Japan  
Dr. Victor Huang, IEEE IES Society, USA

[aes@ubi.pt](mailto:aes@ubi.pt)  
[c.j.chen@ieee.org](mailto:c.j.chen@ieee.org)  
[west@keio.jp](mailto:west@keio.jp)  
[v.huang@ieee.org](mailto:v.huang@ieee.org)

### Call for Papers

#### Technical Outline of the Session and Topics:

IEEE, as an international professional organization of electrical and electronic engineers, also serves as an SDO, an international Standards Development Organization. Contributions to international standards are provided by the IEEE societies and managed by the IEEE Standards Association. IES is a contributor to IEEE standards, and this SS showcases IES standards work.

Contributions cover ongoing standards developments, providing the IES standards community and industry with verification and validation platforms for standards compliance testing and interoperability of their systems in IES Fields of Interest. Also, research work exploring and applying active standards to the IES thematic topics of interest are welcomed. Identifying new areas benefiting from standardizing action could lead to the proposal of new standards working groups falling under the scope of this Special Session. Research and industrial community discussions about best practices to succeed in adopting approved standards will have space at this Special Session to present their dissemination strategies and results.

An unique feature of this SS is that all participating presenters will have the opportunity to perform live demonstrations of their standards platforms at the corresponding Interoperability Plugfest (INTEROP Plugfest) held concurrently at the conference. This will allow further participation and discussions of their presentations in a live and collaborative environment in INTEROP!

#### Topics of the Session include, but are not limited to:

- Verification and validation platforms for the IEEE/IES standards
- Standards compliance and interoperability in the industry context
- Standards development in Sensors and Actuators in networks (IEEE 1451)
- Low Power Sensors and actuators
- Edge computing in industrial and manufacturing automation
- Standards for Visual inspection in agricultural applications
- Standards for factory equipment and systems in automated manufacturing

#### Author's schedule:

Deadline for submission of special session papers	April 15, 2024
Notification of acceptance	June 10, 2024
Deadline for submission of final manuscript	July 01, 2024

Early submission is highly encouraged for early decision notifications!



All the instructions for paper submission are included in the conference website:  
[www.iecon-2024.org](http://www.iecon-2024.org)