



Workshop on Performance Assessment of Industrial Wireless Systems
Plus: Standards Meeting: P1451.5p **May 31, 2022**

Organizing Committee

- Workshop Chairs:
- Zhibo Pang (ABB, Sweden):
 - Rick Candell (NIST, USA):
- Committee members
- Kang Lee (NIST, USA)
 - Kim Fung Tsang (CityU, HK)
 - Allen Chen (IES, USA)
 - Victor Huang (IES, USA)

Sponsored by:

IEEE Industrial Electronics Society (IES) Standards Committee

Technical Co-sponsors:

- National Institute of Standards and Technology (NIST)
- IMS Technical Committee on Sensor Technology, TC-9
- IES Technical Committee on Cloud & Wireless Systems for Industrial Applications
- IES Technical Committee on Industrial Cyber-Physical Systems
- IES Technical Committee on Industrial Informatics
- IES Technical Committee on Industrial Agents

Registration

- Workshop Only (1 day registration): **USDS\$100.00**
- Full ISIE Conference (includes Workshop): Full Conference Fee

The Workshop

The workshop and standards meeting will address user and manufacturer needs and requirements for the development of an environment model and respective specifications for the evaluation of wireless systems in specific RF environments. This is in support of the development of the IEEE P1451.5p - Standard for Radio Frequency Channel Specifications for Performance Assessment of Industrial Wireless Systems. This standard is applicable for wireless mechatronics systems consisting of sensors, actuators, and control systems. This workshop would like to invite and welcome participants to address relevant issues in formulating the environment model and specifications for the standard.

Program

Workshop and Standards Meeting on Performance Assessment of Industrial Wireless Systems, to be held at the 2022 IEEE International Symposium on Industrial Electronics (ISIE) on May 31, 2022 at the Dena'ina and Egan Centers in downtown Anchorage, Alaska.

- Morning 8:30 am to 11:30 am
 - Introduction
 - Keynote: Richard Candell on “ P1451.5p and the future of interference on the wireless factory”
 - Scott McNeil on “Interference in different environments”
 - Zhibo Pang on “Interference modeling”
 - Coffee break
 - Iñaki Val on “Interference impacts on safety systems”
 - Xiaowen Qi on “The importance of wireless channel integrity on digital twin performance”
- Lunch break 11:30 am to 1 pm
- Afternoon 1 to 5 pm
 - IEEE P1451.5p working group meeting
 - Meeting adjourned at 5 pm