

Sha WEI

Ph.D. in Electrical Engineering

Phone: +86 138-1078-5724

Email: venessa724@vip.qq.com, weisha@caict.ac.cn



Summary

- **Expertise in Intelligent Manufacturing and Industrial Internet:** Over 10 years of experience leading projects, developing government strategy, standards, publications in intelligent manufacturing, including significant contributions to Sino-German Industrie 4.0 collaborations.
- **Leadership in International Standardization:** Key roles in IEEE, ISO, IEC, and ITU, including serving on the IEEE Standards Association Board of Governors and chairing multiple working groups, with a focus on digital twin, intelligent manufacturing, and AI standards.
- **Proven Track Record in Large-Scale Project Management:** Successfully managed projects exceeding 230 million RMB, covering standardization, technology validation, and innovation in the fields of intelligent manufacturing and data resource management.
- **World Recognition and Awards:** Recipient of prestigious awards such as the China Standard Innovation Contribution Award - Excellent Youth Award and IEC Young Professional, highlighting contributions to national and international standardization efforts.
- **Strong Academic and Technical Background:** Holds a Ph.D. in Electrical Engineering, with significant research published in top-tier journals and conferences, and holds multiple patents in intelligent manufacturing and data asset management.



Professional Experience

Deputy Chief Engineer, China Academy of Information and Communications Technology (CAICT) , August 2021 - Present

- Lead research and development in intelligent manufacturing, industrial internet, and digital transformation.
- Oversaw projects like the National Intelligent Manufacturing Public Service Platform Network and the Trusted Industrial Data Space.

Deputy Director, China Electronics Standardization Institute (CESI) , January 2020 - June 2021

- Managed standardization efforts in IoT, intelligent manufacturing, and artificial intelligence.
- Played a pivotal role in the IEC and ISO/IEC JTC 1 standardization activities.



Education

- Ph.D. in Electrical Engineering
Shanghai Jiao Tong University, 2014
- Visiting Scholar
University of Maryland, US, 2011-2013
- M.Sc. in Electrical and Computer Engineering
Georgia Institute of Technology, US, 2009
- B.Sc. in Communication Engineering & B.A. in English
University of Electronic Science and Technology of China, 2007



Main Professional Appointments

Since 2019, I have served as a board member of the IEEE Standards Association for five consecutive years, being the youngest female to hold this position. I have been deeply involved in major decision-making, strategic development, and policy formulation. Additionally, I successfully established and chaired the IEEE Smart Manufacturing Standards Committee and initiated the formation of the ISO/IEC JTC 1/SC 41 Digital Twin Working Group, serving as its convener. I have extensive experience working with major international standardization organizations, including ISO, IEC, and ITU.

ITU-D

- Co-Rapporteur, ITU-D SG2/Q5 (Adoption of ICTs and Digital Skills Enhancement)

IEEE Standards Association

- Board of Governors (IEEE-SA BOG), Board Member (2024)
- Chair, IEEE Smart Manufacturing Standards Committee (2019-2023)
- Chair, IEEE P2672, P2807, P2806, P3144, P3158 Working Groups

ISO/IEC JTC 1 and IEC

- Convener, ISO/IEC JTC 1/SC 41 Digital Twin Working Group (2021-2023)