

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

MEETING MINUTES

07 May 2025

Webex

9:00 a.m. – 10:30 a.m. ET (UTC-4)

Attendees

Members Present:

Ted Burse, Chair
Xiaofeng (Alfred) Chen, Vice Chair
Guido Hiertz, Vice Chair
Edward Au
Kit August
Periklis Chatzimisios
Yuan Chi
Darren Galpin
Amit Kumar
Howard Li
Johnny Lin
Hiroshi Mano
Daleep Mohla
N. Kishor Narang
Ramesh S.
Dan Sabin
Luyang Zhang

Members Absent:

Daidi Zhong

IEEE Staff:

Julie Alessi
Christy Bahn
Teresa Belmont, Administrator
Matt Ceglia
Karen Evangelista
Jonathan Goldberg
Dalisa Gonzales
Yvette Ho Sang
Patrycja Jarosz
Soo Kim
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Sandra Maru
Erin Morales
Dave Ringle
Pat Roder

Jennifer Santulli
Tom Thompson
Malia Zaman
Meng Zhao

Guests:

Kiran Balsa
Doug Edwards
Wenfei Ge
Latonia Gordon
Xiangfei Lou
Chunming Ma
Paul Nikolich
Robby Robson
Jon Rosdahl
Lei Wang
Keith Waters
Zunbo Wei
Yijian Zhang

1. CALL TO ORDER

Chair Ted Burse called the meeting to order at 9:01 a.m. ET (UTC-4). There was a round of introductions.

It was noted that the meeting was quorate.

2. REVIEW OF AGENDA

Chair Burse reviewed the agenda.

There was a motion to approve the agenda. In the absence of objection, the motion was approved.

3. APPROVAL OF MINUTES FROM THE 26 MARCH 2025 MEETING

There was a motion to approve the [26 March 2025 meeting minutes](#). In the absence of objection, the motion was approved.

4. PARS FOR DISCUSSION

Unless indicated otherwise, the motions were approved unanimously.

4.1 Withdrawal Requests

IEEE Computer Society/Software & Systems Engineering Standards Committee

P2995

Trial-Use Standard for a Quantum Algorithm Design and Development

Recommendation: Approve PAR withdrawal.

4.2 Modified PARs

There was a bucket motion to approve P3533, P3521, P60880, and P3393 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P3533

Standard for the Performance Evaluation of Software for Smart Television Sets

Recommendation: Approve modified PAR.

IEEE Consumer Technology Society/Smart Devices Standards Committee

P3521

Standard for Technical and Application Requirements for Intelligent Software Development Tools for Smart Devices

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Nuclear Power Engineering Committee

P60880

Nuclear power plants, Instrumentation and control systems important to safety, Software aspects for computer based systems performing category A functions

Recommendation: Approve modified PAR.

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

P3393

Recommended Practice on the Application of IEEE Std 1653.2, Standard for Uncontrolled Traction Power Rectifiers, to Power Components in DC Traction Substations up to 1500 V DC Nominal Output

Recommendation: Approve modified PAR.

4.3 Extension PARs

There was a bucket motion to approve P3123, P2800.2, PC57.155, and P3116 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3123

Standard for Artificial Intelligence and Machine Learning (AI/ML) Terminology and Data Formats

Recommendation: Approve request for an extension until 31 December 2027.

IEEE Power and Energy Society/Energy Development & Power Generation

P2800.2

Recommended Practice for Test and Verification Procedures for Inverter-based Resources (IBRs) Interconnecting with Bulk Power Systems

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Power and Energy Society/Transformers

PC57.155

Guide for the Interpretation of Gases Generated in Natural and Synthetic Ester Liquid Type Transformers

Recommendation: Approve request for an extension until 31 December 2027.

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

P3116

Standard for Automotive Radar Performance Metrics and Testing Methods for Advanced Driver Assistance Systems (ADAS) and Automated Driving System (ADS) Applications

Recommendation: Approve request for an extension until 31 December 2027.

4.4 New PARs

There was a bucket motion to approve P1958, P3225.01, P3233.01, P3250.06, P3250.07, P2807.14, P3569, P3701, P802.3-2022/Cor 2, P2834, P4009, P1588i, P1588j, P3597, P2664a, P1218, and P3700 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. The motion was approved.

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1958

Standard for Hydrogen Fuel Cell Application Framework on Multi-rotor Drones

Recommendation: Approve new PAR until December 2029.

IEEE Computational Intelligence Society/Standards Committee

P3596

Standard for Data Information Technology in Monitoring Platform of Electrochemical Energy Storage System

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3596. In the absence of any objection or abstention, the motion was approved.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3225.01

Standard for Reference Architecture of Blockchain-based Artificial Intelligence (AI) Agent

Recommendation: Approve new PAR until December 2029. (Recuse: X. Chen)

P3233.01

Guide for Developing a Blockchain Teaching and Training Platform

Recommendation: Approve new PAR until December 2029. (Recuse: X. Chen)

P3250.06

Standard For Data Element Trading Platform—Part 1: Reference Architecture and Technical Requirements

Recommendation: Approve new PAR until December 2029. (Recuse: X. Chen)

P3250.07

Standard for Data Element Trading Platform—Part 2: Management, Service, and Security Requirements

Recommendation: Approve new PAR until December 2029. (Recuse: X. Chen)

IEEE Computer Society/Knowledge Engineering Standards Committee

P2807.14

Standard for Technical Requirements and Evaluation of Graph-based Retrieval-Augmented Generation

Recommendation: Approve new PAR until December 2029.

P3569

Standard for Intelligent Assistant Maturity Model and Assessment Methodology

Recommendation: Approve new PAR until December 2029.

P3701

Standard for Reference Architecture for Application Systems of Large-scale Pre-trained Models in Manufacturing with Knowledge Enhancement

Recommendation: Approve new PAR until December 2029

IEEE Computer Society/LAN/MAN Standards Committee

P802.3-2022/Cor 2

IEEE Standard for Ethernet - Corrigendum 2 - Multi-Gigabit Optical Automotive Ethernet Transmitter Distortion Figure of Merit Normalization Factors

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au)

IEEE Education Society/Standards Committee

P2834

Standard for Secure and Trusted Learning Systems

Recommendation: Approve new PAR until December 2029.

IEEE Geoscience and Remote Sensing Society/Standards Committee

P4009

Standard for Nap-of-the-object Photogrammetry of Landslide Survey

Recommendation: Approve new PAR until December 2029.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1588i

IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems—
Amendment: Profile configuration

Recommendation: Approve new PAR until December 2029.

P1588j

IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems—
Amendment: Enhancements to the Unicast Message Negotiation Procedures and to Performance Monitoring
Options

Recommendation: Approve new PAR until December 2029.

IEEE Intelligent Transportation Systems Society/Standards Committee

P3594

Guide for Methods of Naturalistic Driving Scenario Extraction for Intelligent Connected Vehicles

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3594. In the absence of any objection or abstention, the motion was approved.

IEEE Power and Energy Society/Analytic Methods for Power Systems

P3597

Standard for Interfacing of Controls and Protection to Power System Simulation Tools

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P2664a

IEEE Standard for Streaming Telemetry Transport Protocol (STTP)—Amendment: Add a File Format for Off-line
Exchange of Information Using the Same Structures as the On-Line Exchange

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P3580

Standard for Current and Voltage Sensors over 1 kV to 72.5 kV

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Transmission and Distribution

P1218

Guide for Maintenance of Wood Transmission and Distribution Line Structures

Recommendation: Approve new PAR until December 2029. (Recuse: D. Sabin)

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P3700

Standard for Intelligent Modeling of Emergency Corridor for Surface Lifeline Structures in Disasters

Recommendation: Approve new PAR until December 2029.

4.5 PARs for the Revision of Standards

There was a bucket motion to approve P21839, P21840, P21841, P1309, P1584, P1057, P1451.4, P1591.2, P1427, P2746, P1893, P1894, P1609.0, and P1609.2 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P21839

Systems and software engineering -- System of systems (SoS) considerations in life cycle stages of a system

Recommendation: Approve PAR for the revision of a standard until December 2029.

P21840

Systems and software engineering -- Guidelines for the utilization of ISO/IEC/IEEE 15288 in the context of system of systems (SoS)

Recommendation: Approve PAR for the revision of a standard until December 2029.

P21841

Systems and software engineering -- Taxonomy of systems of systems

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1309

Standard for Calibration of Electromagnetic Field Sensors and Probes (Excluding Antennas) from 9 kHz to 60 GHz

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Industry Applications Society/Petroleum & Chemical Industry

P1584

Guide for Performing Arc-Flash Hazard Calculations

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Instrumentation and Measurement Society/TC10 - Waveform Generation Measurement and Analysis

P1057

Standard for Digitizing Waveform Recorders

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.4

Standard for A Smart Transducer Interface for Sensors and Actuators--Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1591.2

Standard for Testing and Performance of Hardware for All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Substations Committee

P1427

Guide for Recommended Electrical Clearances and Insulation Levels in Air-Insulated Electrical Power Substations

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Transmission and Distribution

P2746

Recommended Practice for Evaluating Alternating Current (ac) Interference on Linear Facilities Co-Located Near Power Lines

Recommendation: Approve PAR for the revision of a standard until December 2029. (Recuse: D. Sabin)

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P1893

Guide for the Measurement of Direct Current (DC) Transmission Line and Earth Electrode Line Parameters

Recommendation: Approve PAR for the revision of a standard until December 2029. (Recuse: D. Sabin)

P1894

Guide for Online Monitoring and Recording Systems for Transient Overvoltages in Electric Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2029. (Recuse: D. Sabin)

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.0

Guide for Wireless Access in Vehicular Environments (WAVE)—Architecture

Recommendation: Approve PAR for the revision of a standard until December 2029.

P1609.2

Standard for Wireless Access in Vehicular Environments--Security Services for Application and Management Messages

Recommendation: Approve PAR for the revision of a standard until December 2029.

5. Old Business

There was no old business.

6. New Business

There was no new business.

7. Next Meeting

The next meeting will be a hybrid meeting with the in person portion held in Vienna, Austria. The meeting will be held 18 June 2025 during the SASB June Meeting Series.

8. Adjournment

The meeting was adjourned at 9:44 a.m. ET (UTC-4).