



IEEE Industry Applications Society Industrial Power Converters Committee (IPCC) 2024 Annual Meeting Minutes

Tuesday, October 22nd, 2024, 15:00 pm-16:00 pm CST
Phoenix Convention Center, Room 124b
Phoenix, Arizona, U.S.A.

Members in Attendance

Total attended: 52

LAST NAME	FIRST NAME	INSTITUTION	COUNTRY
Anglani	Norma	University of Pavia	Italy
Biadene	Davide	University of Padova	Italy
Briz Del Blanco	Fernando	University of Oviedo	Spain
Cacciato	Mario	Univ. of Catania	Italy
Damiano	Alfonso	Università di Cagliari	Italy
di Benedetto	Marco	Roma Tre University	Italy
Di Nezio	Giulia	Roma Tre University	Italy
Empringham	Lee	University of Nottingham	UK
Formentini	Andrea	University of Genova	Italy
Grbović	Petar	University of Innsbruck	Austria
Guo	Liping	Northern Illinois University	USA
Guo	Feng	University of Wisconsin-Milwaukee	USA
Hasegawa	Kazunori	Kyushu Institute of Technology	Japan
Itoh	Junichi	Nagaoka University of Technology	Japan
Kusaka	Keisuke	Nagaoka University of Technology	Japan
Lee	Tzung-Lin	National Sun Yat-Sen University	Japan
Lu	Xiaonan	Purdue University	USA
Luna	Massimiliano	INM-CNR	Italy
LIN	PENGFENG	Shanghai Jiao Tong University	China
Manjrekar	Madhav	University of North Carolina - Charlotte	USA
Mannen	Tomoyuki	University of tsukuba	USA
Mattavelli	Paolo	University of Padova	Italy





LAST NAME	FIRST NAME	INSTITUTION	COUNTRY
Mengoni	Michele	University of Bologna	Italy
Ojo	J. Olorunfemi	Tennessee Technological University	USA
Petrella	Roberto	University of Udine	Italy
Pucci	Marcello	INM-CNR	Italy
Pugliese	Sante	Kiel University	Germany
Solero	Luca	Roma Tre University	Italy
Simonetti	Francesco	Aalborg University	Denmark
Terlizzi	Cristina	University of Rome Tor Vergata	Italy
Tarisciotti	Luca	University Andres Bello	Chile
Tresca	Giulia	University of Pavia	Italy
Zanchetta	Pericle	University of Pavia	Italy
Zarri	Luca	University of Bologna	Italy
Yoon	Young-Doo	Hanyang University	Korea
Pizzimenti	Francesca	Terna SPA	Italy
Benfatto	Oriana	Università di Pavia	Italy
Vancini	Luca	University of Bologna	Italy
Fernandez	Pablo Garcia	University of Oviedo	Spain
Patil	Niranjan	Tmec	USA
Zhang	Daifei	University of Toronto	USA
Li	Gang	CATL	Canada
Palazzo	Simone	University of Cassino	Italy
Avoki	Omekanda	General Motors	USA
Riccio	Jacopo	University of Nottingham	UK
Adda	Ravindranath	IIT Guwahati	Denmark
Volpini	Andrea	Università di Pavia	Italy
Gemma	Filippo	Università di Pavia	Italy
Rokocakau	Samuela	Università di Pavia	Italy
Suh	Yongsug	Jeonbuk National University	Korea
Wang	Mei Fang	Sun Yat-sen university	Taiwan
Huang	Wenkang	Infineon Technologies	USA





1. Approval of 2023 COMMITTEE MEETING MINUTES and 2024 IPCC Meeting Agenda

Approval of the 2023 committee meeting minutes was moved by Petar Grbović and seconded by Pericle Zanchetta.

Approval of the 2023 committee meeting agenda was moved by Petar Grbović and seconded by Pericle Zanchetta.

2. IPCC Officers Report

IPCC Chair, Yongsug Suh, organized the meeting and gave a presentation on the following topics. Please refer to the presentation for more details.

- A. Membership roster: 470, including 25 new members. However, only 317 are active members, and 153 are temporarily inactive members.
- B. Becoming an active member: Attending IPCC meeting held at ECCE; active with IEEE/IAS/IPCC activities; inviting active members to participate IPCC activities; publishing at IAS-sponsored conferences.
- C. Introduction of IPCC Officers and Subcommittees for 2024: 4 officers and 10 members, among which 3 are from industry.
- D. IPCC participations in ECCE 2024: 2 General Co-Chairs, 3 TPC co-chairs (record), 1 industry partnerships chairs, 1 research and government Lab Partnership Chair, 1 tutorial chair, 1 special sessions chairs, 1 WIE chair, 1 Student Activities Chairs, 1 Young Professionals Chair, 1 awards chair and 5 Organizing Committee Members. IPCC participation in technical activities including Track E and Track F paper review).

3. Reports from Fellow and awards nomination Subcommittees

IPCC Fellow and Award Nominating Chair, Robert Guenther, has made presentation slides on the following topics. Yongsug Suh gave a presentation instead of Robert Guenther. Please refer to the presentation for more details.

- A. IAS IPCSD Gerald Kliman Innovator Award: Noriko Kawakami, Toshiba-Mitsubishi-Electric Industrial Systems Corporation (TMEIC)
- B. IAS Members in IEEE Fellow Class 2025: 9 nominated through IAS, and 8 nominated though other societies.
- C. Fellow nomination must be completed by **February 7**, **2025** for Fellow class of 2026, which is earlier that the usual March 1.
- D. Other awards: deadlines vary from March 15 to June 1. Please refer to the presentation for more details.

4. Reports from Other Subcommittees

- Standards: Lee Empringham: Standards Chair
 - A. IPCC has initiated and applied for the following three projects to IEEE:





P3542: Standard for Efficiency Classification of fully Integrated Motor Drives,

P3543: Standard for Power Quality requirements for Fully Integrated Motor Drives.

P3544: Standard for Data interconnect requirements for Power factor correction of distributed Variable Frequency Motor Drives.

- B. Project in preparation: Standard for EMI emissions fed by DC grids in Industrial installations
- Special activities Co-Chairs: Elisabetta Tedeschi, Tianqi Hong, Lisa Qi
 - A. ECCE 2024 Tutorial and Special Session
 - B. IPCSD DEIC (Diversity, Equity and Inclusion Committee) chair Giovanna Oriti gave a supplementary presentation on the DEIC activities in IAS on behalf of Elisabetta Tedeschi.
 - B. Next Steps: Broad impacts within and beyond IPCC

5. IAS Transactions Report

IAS IPCC Paper Review Chair, Stefano Bifaretti, has been not present and Pericle Zanchetta gave a presentation on the following topics. Please refer to the presentation for more details.

- A. IPCC Associate Editors: 25 in Oct. 2024
- B. Submit paper to IPCC within 12 months after presenting at an IAS-sponsored conference and with at least 20% new content.
- C. Statistics: submissions by committee (IPCC is 36%, largest percentage in IPCSD), decision time, and acceptance rate (56% in 2023).

6. IEEE Open Journal of Industry Applications

IEEE Open Journal on Industry Applications Editor-in-Chief, Pericle Zanchetta, gave a presentation on the following topics,

- A. 2019-2024: 358 submitted papers, in which 140 have been accepted 218 have been rejected -> acceptance rate: 39.1%
- B. Average Days to First Decision: 40.6 days
- C. Open Access Fee effective 1 Jan. 2025: \$1995 USD, with 20% discount for IAS members
- D. Impact Factor is 7.9 in 2023.

7. IPCC 2024 prize paper awards

IPCC Transaction Review Chair, Stefano Bifaretti, has been not present and Yongsug Suh presented the following topics

- A. IPCC ECCE & TIA 2024 Prize Paper Award Committee & Evaluation process
- B. IPCC ECCE 2024 prize paper award winners:





First Prize: Petros Karamanakos, Mirza Abdul Waris Begh, Shirin Rahmanpour, Tobias Geyer, "Gradient-Based Predictive Pulse Pattern Control for Grid-Connected Converters with LCL Filters".

Second Prize: Xin Lou, Feiyang Zhu, Zheqing Li, Qiang Li, Fred C. Lee, "Single-Stage 48 V/1.8 V Coupled-Transformer Voltage Regulator (CTVR)".

Third Prize: Daniel Chavez, Damian Sal y Rosas, Julio Tafur, "Single-Stage Quad-Active-Bridge Series-Resonant AC-DC Converter: Modulation for Active and Reactive Power".

C. IPCC TIA 2024 prize paper award winners:

First Prize: Jacopo Riccio, Petros Karamanakos, Shafiq Odhano, Mi Tang, Mauro Di Nardo, Pericle Zanchetta, "Direct Model Predictive Control of Synchronous Reluctance Motor Drives".

Second Prize: Arup Ratan Paul, Arghyadip Bhattacharya, Kishore Chatterjee, "A Novel Single Phase Grid Connected Transformer-less Solar Micro-inverter Topology with Power Decoupling Capability".

Third Prize: Emerson L. Soares, Cursino B. Jacobina, Nady Rocha, Victor Felipe M. B. Melo, "Dual Converter Operating with Floating Capacitors Connecting Open-End Winding Doubly-Fed Induction Generator to the DC-Microgrid".

8. Presentation on Planning for ECCE 2025 - Iqbal Husain

- To be held in Philadelphia, Pennsylvania, USA, October 19-23, 2025
- Volunteers needed for Topic Chairs and Session Chairs
- Please submit paper digest and tutorial proposals by March 2, 2025.

9. Promotion for IAS sponsored 2025 conferences (...please refer to the presentation slides for more information)

- A. Avoki Omekanda Introduced 2025 IEEE Industry Applications Society (IAS) Annual Meeting Incorporating Industrial & Commercial Power Systems (I&CPS)-Asia Conference: *Hilton Taipei Sinban, in New Taipei, Taiwan, June 15-20, 2025*
- B. Luca Solero introduced Flagship conference in USA: APEC 2025, Georgia World Congress Center, Atlanta, GA, March 16-20, 2025
- C. Junichi Itoh, IPCC Asian Liaison Officer, introduced IAS-sponsored conferences in Asia: ICEMS 2024, Fukuoka, November 26-29, 2024, IPEC 2026 ECCE Asia, May 31- June 4, 2026, Nagasaki, Japan
- D. Petar Grbović, IPCC European Liaison Officer, introduced IAS-sponsored conferences in Europe: XV International Symposium on Industrial Electronics and Applications INDEL 2024, 6-8 November 2024, Banja Luka, Bosnia and Herzegovina, 23rd International Symposium on POWER ELECTRONICS *Ee 2025*, Oct. 29th Nov. 1st 2025, Novi Sad, Republic of Serbia





10. Planning of ECCE 2025

volunteer recruitment for ECCE 2025 Topic chairs and session chairs

11. Closing remarks & Motion to adjourn

Moved by Luca Solero and seconded by Pericle Zanchetta.

Yongsug Suh, Chair Wenkang Huang, Vice-Chair Marco di Benedetto, Secretary Xiaonan Lu, Past-Chair