

Industrial Power Converters Committee Meeting

Nashville, Tennessee
October 31, 2023

- **Approval of the Agenda and Approval of 2022 Meeting Minutes**
- **Officers Report**
 - ECCE 2023
- **Reports from Subcommittees**
 - Standards
 - Fellow and awards nomination
 - Special activities
- **New Officer Selection**
 - IPCC Secretary
 - Special Activities (Webinar, Working Group, Special Issue, etc.)
- **IAS Transactions**
 - IAS Transactions review statistics
 - IEEE Open Journal of Industry Applications
 - IPCC prize paper awards
- **Promotion for IAS sponsored 2024 conferences**
 - ECCE 2024
 - APEC 2024
- **Planning of ECCE 2024**
 - Call for Special Sessions and Tutorials
 - Volunteers as Topic Chairs and Session Chairs
- **Closing remarks & Motion to adjourn**

- **Membership** roster is at 445 (+12 people since last meeting)
 - Online and onsite registration
 - Membership roster clean-up to make sure that we have up-to-date information for active members (invalid emails updated/removed)
 - Attending the IPCC meeting held every year at ECCE (usually)
 - Identification of active IPCC members and invite them to actively participate in IPCC activities
- Spread the word to friends, colleagues, and students.
- Active with IEEE/IAS/IPCC activities
- Publishing at the IAS-sponsored conferences

Committee Officers

Chairman	Xiaonan Lu	xiaonan.lu@ieee.org
Vice-Chairman	Yongsug Suh	ysuh@jbnu.ac.kr
★ Secretary	Wenkang Huang	wkhuang@ieee.org
Past Chairman	Luca Solero	luca.solero@uniroma3.it

Industrial Power Converter Subcommittees

Transactions Review Chair	Stefano Bifaretti	stefano.bifaretti@uniroma2.it
Transactions Review Co-Chair	Shafiq Odhano	shafiq.odhano@newcastle.ac.uk
Fellow and Award Nominating Chair	Robert N. Guenther	rnguenther@gmail.com
Standards Chair	Lee Empringham	lee.empringham@nottingham.ac.uk
★ Special Activity Chair	Elisabetta Tedeschi	elisabetta.tedeschi@ntnu.no
★ Special Activity Co-Chair	Tianqi Hong	thong@anl.gov
Asian Liaison Officer	Junichi Itoh	itoh@vos.nagaokaut.ac.jp
Asian Liaison Officer	Jeehoon Jung	jhjung@unist.ac.kr
European Liaison Officer	Petar Grbovic	petar.grbovic@uibk.ac.at
European Liaison Officer	Petros Karamanakos	p.karamanakos@ieee.org

★ **Industry members**

2023 ORGANIZING COMMITTEE

> General Chair

Brad Lehman
Northeastern University, USA
b.lehman@northeastern.edu

> General Co-Chairs

Joseph Ojo
Tennessee Tech
JOjo@tntech.edu

Jean-Luc Schanen
Univ. Grenoble Alpes
jean-luc.schanen@g2elab.grenoble-inp.fr

Shanelle Foster
Michigan State University, USA
hogansha@egr.msu.edu

Finance Chairs

Shanelle Foster
Michigan State University, USA
hogansha@egr.msu.edu

Xiu Yao
University at Buffalo, USA
xiuyao@buffalo.edu

TPC Co-Chairs

Xiaonan Lu
Purdue University
xiaonan.lu@ieee.org

Minjie Chen
Princeton University
minjie@princeton.edu

Jin Wang
The Ohio State University
wang.1248@osu.edu

Tanya Gachovska
MDA
tgachovska@yahoo.com

Vandana Rallabandi
GE
vandana.rallabandi@ieee.org

Xiongfei Wang
KTH Royal Institute of Technology,
Sweden
xiongfei@kth.se

★ **Mahshid Amirabadi**
Northeastern University
m.amirabadi@northeastern.edu

> Publications

Jin Ye
University of GA
Jin.Ye@uga.edu

Sanjida Murray
Lakehead University
moury.sanjida@gmail.com

Arijit Banerjee
University of Illinois,
Urbana-Champaign
arijit@illinois.edu

Henry Chung
City University Hong Kong
eeshc@cityu.edu.hk

> Exhibition Chairs

David Morrison
How2Power, USA
david@how2power.com

Kris Eberle
Plexim
eberle@plexim.com

Bulent Sarioglu
University of Wisconsin –
Madison
sarioglu@wisc.edu

> Industry Partnerships Chairs

★ **Wenkang Huang**
Infineon
huangwenkang@gmail.com

★ **Xu She**
Lunar Energy
xshe@ieee.org

★ **Zhi (George Gao)**
Schneider Electric
zhigao@ieee.org

★ **Avoki Omekanda**
GM
avoki.omekanda@ieee.org

★ **Iqbal Husain**
NC State
ihusain2@ncsu.edu
Burak Ozpineci
Oak Ridge National Lab
burak@ornl.gov
Mazharul Chowdhury
GM
mazharul.chowdhury@gm.com

> Research and Government Lab Partnership Chairs:

★ **Akanksha Singh**
NREL
akanksha.singh@nrel.gov

★ **Sonny Xue**
ORNL
yx@ieee.org

> Tutorial Chairs:

Dorin O. Neacsu
Technical University of Iasi
Romania
dorin.neacsu@ieee.org

Sara Roggia
MagniX Aero, USA
sara.roggia@gmail.com

★ **Leon Tolbert**
University Tennessee
tolbert@utk.edu

> Publicity/Electronic Media Chairs

Rakesh Kumar
National Institute of Technology
Tiruchirappalli, India
rakesh.a@ieee.org

Helena Cui
University of Tennessee
helencui@utk.edu

> Plenary Session Chairs

★ **Giovanna Oriti**
Naval Postgraduate School, USA
giovanna.oriti@ieee.org

★ **Dushan Boroyevich**
Va Tech
dushan@vt.edu

> Special Sessions Chairs

Anant Singh
Halla Mechatronics, USA
anant_singh@ieee.org

★ **Ryan Li**
University of Alberta, USA
yunwei.li@ualberta.ca

Chiara Boccaletti
Sapienza University of Rome, Italy
chiara.boccaletti@uniroma1.it

Sonny Xue
ORNL, USA
yx@ieee.org

★ **Zheyu Zhang**
Clemson University, USA
zheyu.zhang@ieee.org

> Outreach/Local Chairs

Joao Pinto
ORNL
joanofre@gmail.com

Christina DiMarino
Va Tech
dimaricm@vt.edu

Ryan Stanton
Tennessee Valley Authority (TVA)
rkstanton@tva.gov

> WIE Chairs:

Mengqi (Maggie) Wang
University of Michigan-Dearborn
mengqi@umich.edu

Yunting Liu
Penn State University
yp15778@psu.edu

★ **Norma Anglani**
Università di Pavia, Italy
nanglani@unipv.it

Qianwen Xu
KTH Royal Institute of Technology
qianwenx@kth.se

> Student/Young Professionals Activities Chairs:

Nayara Brandão de Freitas
Siemens Energy
nayara@ieee.org

Joseph Kozak
The Johns Hopkins University
Applied Physics Laboratory
jpkozak@vt.edu

Jungwon Choi
University of Washington
jungchoi@ece.uw.edu

Harish S. Krishnamoorthy
University of Houston
hskrishn@uh.edu

Sumit Chhabria
Zoox, USA
sumitchhabria7@gmail.com

Sandun Kuruppu
Western Michigan, USA
sanduns@ieee.org

★ > Awards Chairs:

Fang Luo
SUNY at Stony Brook
fang.luo@stonybrook.edu

Mahima Gupta
Portland State University
mahima@pdx.edu

> Conference Webmasters

Yuan Li
Florida State University, USA
yli@caps.fsu.edu

Rakesh Kumar
KPR Institute of Engineering and
Technology, India
rakeshkumar.a@kpriet.ac.in

Kristen Parrish
IEEE Power Electronics Magazine
kristen@ieee.org

> IEEE Local Chapter Chairs

Rafal Wojda
ORNL
wojdar@ornl.gov

Suman Debnaths
ORNL
debnaths@ornl.gov

Conference Management
RNA Associates, USA
info@rna-associates.com

> Organizing Committee Members

Joseph Song-Manguelle
ORNL
songmanguelj@ornl.gov

Shajjal Chowdhury
ORNL
chowdhurys@ornl.gov

Yilmaz Sozer
University of Akron
ys@uakron.edu

Dong Cao
University of Dayton
dcao02@udayton.edu

Ozge Taskin
Safran Group
ozge.taskin@ieee.org

Omid Beik
North Dakota State University
omid.beik@ndsu.edu

Siavash Pakdelian
UMass Lowell
Siavash_Pakdelian@uml.edu

Fei Ding
NREL
fei.ding@nrel.gov

Lijun He
GE
lijun.he@ge.com

Dan Ionel
University of Kentucky
dan.ionel@ieee.org

Xiaoqing "Jason" Song
University of Arkansas
songx@uark.edu

Maryam Saeedifard
Ga Tech
maryam@ece.gatech.edu

Yue Zhao
University of Arkansas
yuezhao@uark.edu

Kevin Taylor
IEEE Career Workforce Chair
k2356@aol.com

Faisal Khan
NREL
faisal.khan@nrel.gov

Power Converter Topologies

Vice Chair: Mahshid Amirabadi, *Northeastern University, United States*

Vice Chair: Khurram Afridi, *Cornell University, USA*

Vice Chair: Dong Cao, *University of Dayton, USA*

★ **Vice Chair:** Wenkang Huang, *Infineon Technologies, USA*

Vice Chair: Hanh-Phuc Le, *University of California San Diego, USA*

Vice Chair: Jin Moon, *FAMU-FSU College of Engineering, USA*

Vice Chair: Yongsug Suh, *Jeonbuk National University, Korea*

★ Winway Chen, *Diodes Incorporated, USA*

★ Tianjiao Liu, *Onsemi, USA*

Santanu Mishra, *Indian Institute of Technology Kanpur, India*

★ Shuilin Tian, *Innoscence Incorporated, USA*

★ Dongbin Hou, *Texas Instruments, USA*

Yonglei Zhang, *China University of Mining and Technology, China*

David Perreault, *Massachusetts Institute of Technology, USA*

★ Ashish Kumar, *Our Next Energy, USA*

★ Saad Pervaiz, *Texas Instruments, USA*

★ Samantha Gunter, *General Motors, USA*

Dehong Xu, *Zhejiang University, China*

★ Gui-jia Su, *Oak Ridge National Laboratory, USA*

★ Yuheng Wu, *John Deere, USA*

Tao Yang, *University of Nottingham, United Kingdom*

Xibo Yuan, *University of Bristol, United Kingdom*

Li Zhang, *Huazhong University of Science and Technology, China*

★ Fei Diao, *John Deere, USA*

Yam Siwakoti, *University of Technology Sydney, Australia*

Mahima Gupta, *Portland State University, USA*

- Submitted 188
- Accepted (final) 116
- Percentage 61.7%

Xiaofeng Lyu, *Zhejiang University, China*

Woongkul Lee, *Michigan State University, USA*

★ Renato Torres, *General Motors, USA*

Xin Zan, *University of Maryland, USA*

Kahyun Lee, *Ewha University, Korea*

Zhehui Guo, *Florida State University, USA*

★ Alireza Safaee, *Apple Inc., USA*

Ali Khajehoddin, *University of Alberta, Canada*

Bilal Akin, *University of Texas at Dallas, USA*

Ebrahim Babaei, *University of Tabriz & Near East University, Iran*

Juergen Biela, *ETH Zurich, Switzerland*

Luca Solero, *Roma Tre University, Italy*

Junichi Itoh, *Nagaoka University of Technology, Japan*

Yeonho Jeong, *University of Rhode Island, USA*

Manuel Arias, *University of Oviedo, Spain*

Marco di Benedetto, *Roma Tre University, Italy*

Xiaofeng Yang, *Beijing Jiaotong University, China*

Hua Zhang, *Rowan University, USA*

Control, Modeling and Optimization of Power Converters

- ★ **Vice Chair:** Pankaj Bhowmik, *Power Engineer, USA*
- Vice Chair:** Pradyumn Chaturvedi, *Visvesvaraya National Institute of Technology, Nagpur, India*
- Vice Chair:** Daniel Costinett, *University of Tennessee Knoxville, USA*
- Vice Chair:** Petros Karamanakos, *Tampere University, Finland*
- ★ **Vice Chair:** Jinia Roy, *GE Research, USA*
- Kevin Bai, *University of Tennessee Knoxville, USA*
- Juan Rodriguez Mendez, *Universidad de Oviedo, Spain*
- Jessica Boles, *University of California Berkeley, USA*
- ★ Mostak Mohammad, *Oak Ridge National Laboratory, USA*
- Hongjie Wang, *Utah State University, USA*
- ★ Ling Jiang, *Analog Devices, Inc., USA*
- Lei Gu, *University of Pennsylvania, USA*
- ★ Vikram Roy Chowdhury, *National Renewable Energy Laboratory, USA*
- ★ Tiancan Pang, *GE, USA*
- Debashish Dash, *VIT-Vellore, India*
- Ehab Shoubaki, *UNC-Charlotte, USA*
- Rahul Jaiswal, *NIT-Delhi, India*
- ★ Binesh Kumar, *Atom Power, USA*
- ★ Abhishek Anand, *CEERI Pilani India, India*
- Mohd Alam, *VNIT Nagpur India, India*
- Snehal Gawande, *YCCE Nagpur India, India*
- Archakam Vijayaraghavulu Giridhar, *NIT Warangal India, India*
- Perumal Parthiban, *NIT Surathkal India, India*
- ★ Amod Umarikar, *IIT Indore India, India*
- Soumya Subhra Nag, *Indian Institute of Technology, Delhi, India*

- **Submitted** **186**
- **Accepted (final)** **134**
- **Percentage** **72.0%**

- ★ Tianqi Hong, *University of Georgia, USA*
- ★ Haryani Nidhi, *Delta Electronic, USA*
- ★ Aswad Adib, *Oak Ridge National Laboratory, USA*
- Xiaofan Cui, *Stanford University, USA*
- Michele Mengoni, *University of Bologna, Italy*
- Ludovico Ortombina, *University of Padova, Italy*
- Elisabetta Tedeschi, *Norwegian University of Science and Technology, Norway*
- Andrea Formentini, *University of Genova, Italy*
- ★ Lennart Harnefors, *ABB Corporate Research, Sweden*
- Alessandro Lidozzi, *ROMA TRE University, Italy*
- Diego Pérez-Estévez, *University of Vigo, Spain*

Further ECCE 2023 Updates

IPCC Award Committee Report

Robert N Guenther, Jr

IPCSD Awards Chair

October 31, 2023

IAS IPCSD Gerald Kliman Innovator Award (Deadline: June 1)

The IEEE IAS Industrial Power Conversion Systems Department (IPCSD) Gerald Kliman Innovator Award was established to honor innovators who contributed to the technical areas of IPCSD Department.

For meritorious contributions to the advancement of power conversion technologies through innovations and their application to Industry.

Needs 3 endorsement letters.

Criteria considered by the Evaluation Committee shall include: impact of the nominee's work on the technology; discernable and salient innovative aspect of the nominee's work; the breadth of use of the work; the depth of the work's impact on the industry; the technical leadership value of the work.

2023 Awardee: Noriko Kawakami

(Toshiba-Mitsubishi-Electric Industrial Systems Corporation (TMEIC))

IAS Gerald Kliman Award – past recipients

2023 – Noriko Kawakami

2022 – Ayman EL-Refaie

2021 – Robert Guenther

2020 – Vlado Blasko

2019 – Alex Huang

2018 – Fred Wang

2017 – Richard Lukaszewski

2016 – Jason Lai

2015 – Manoj Shah

2014 – Jan Abraham Ferreira

2013 – Fang Zheng Peng

2012 – Thomas Habetler

2011 – Leo Lorenz

2010 – William Peterson

2009 – John Miller

2008 – Ira J. Pitel

2007 – Bruno Lequesne

2006 – Kaushik Rajashekara

2005 – Russel J. Kerkman

IAS members in IEEE Fellow Class 2023 (nominated through other societies)

Name	Region	Class	Citation	Sponsoring Society
Munaf Rahimo	R8 - Europe, MEast, Africa	2023	For contributions to high-voltage insulated gate bipolar transistors for grid applications	ED
Chenghui Zhang	R10 - Asia and Pacific	2023	For contributions to control of renewable energy systems	IE
Fei Gao	R8 - Europe, MEast, Africa	2023	For contributions to real-time simulation and control techniques for fuel cells and power converters	IE
Zhigang Liu	R10 - Asia and Pacific	2023	For contributions to fault detection and protection in high-speed railway power systems	IM
Ali Davoudi	R5 - Southwestern USA	2023	For contributions to power-electronic dominant micro-grid control	PEL
Xiongfei Wang	R8 - Europe, MEast, Africa	2023	For contributions to power-electronic-based power systems	PEL

8 IAS members in IEEE Fellow Class 2023 (nominated through IAS)

Name	Region	Class	Citation	Sponsoring Society
Bilal Akin	R5 - Southwestern USA	2023	For contributions to control, diagnosis and condition monitoring of AC drives	IA
Chengxiong Mao	R10 - Asia and Pacific	2023	For leadership in active control of power systems and its industrial applications	IA
Jean-luc Schanen	R8 - Europe, MEast, Africa	2023	For contribution to Electromagnetic Compatibility in Power Electronics	IA
Kashem Muttaqi	R10 - Asia and Pacific	2023	For contribution to modeling and control of renewable and distributed energy resources	IA
Marko Hinkkanen	R8 - Europe, MEast, Africa	2023	For contributions to sensor-less control of industrial motor drives	IA
Masaaki Okubo	R10 - Asia and Pacific	2023	For contributions to non-thermal plasma applications for pollution control	IA
Mingzhou Xu	R6 - Western USA	2023	For contributions to power systems of all-electric aircraft	IA
Yilmaz Sozer	R2 - Eastern USA	2023	For contributions to the design and control of electric machine drives	IA

IEEE Fellow (Deadline to Submit Nominations for Fellow Class of 2025: !! February 7, 2024 !!)

Note: Fellow Class of 2024 will be announced near the end of 2023

- Any person, including non-IEEE members, is eligible to serve as a nominator. The following are exceptions: Members of the IEEE Board of Directors, members of the IEEE Fellow Committee, IEEE Society/Technical Council Fellow Evaluating Committee Chairs, members of IEEE Society/Technical Council Fellow Evaluating Committee reviewing the nomination, or IEEE Staff.
- The nominator is responsible for preparing the IEEE Fellow Grade Nomination Form.
- The nominator is responsible for soliciting five references capable of assessing the nominee's contributions. References must be IEEE Fellows.
- There is the option of soliciting no more than three endorsements capable of supporting the nomination. Any person, including non-IEEE members, may submit an endorsement. The following individuals are ineligible to serve as endorsements: members of the IEEE Board of Directors, members of the Fellow Committee, members of the IEEE Society/Technical Council Fellow Evaluating Committee reviewing the nomination or IEEE Staff. In addition, a nominator may not serve as an endorser for a nomination he/she is submitting.
- Complete list of IAS Fellows at webpage:
<https://ias.ieee.org/awards/ieee-fellow-program/ias-fellows.html>

2022 IAS Awardees

- Outstanding Achievement: **Iqbal Husain**
- Mentor/Educator Award: **Paresh C. Sen**
- Andrew W. Smith Outstanding Young Member Achievement Award:
Zhao Hao Ding
- Outstanding Young Member Service Award:
Payman Dehghanian

IAS awards

- IAS IPCSD Gerald Kliman Innovator Award (Deadline: June 1, 2024 for the 2024 Kliman Award)
- Awards require a nominator (cannot self-nominate)
- Nominations through web-based-form: <https://ias.ieee.org/awards.html>
- IEEE Andrew W. Smith Outstanding Young Member Achievement Award (Deadline: March 15)
- IAS Outstanding Young Member Service Award (Deadline: March 15)
- IAS Distinguished Service Award (Deadline: March 15)
- IAS Outstanding Achievement Award (Deadline: March 15)
- IEEE AS Outstanding Educator/Mentor (Deadline: March 15)
- IEEE Fellow (Deadline: March 1, 2024 for Fellow class of 2025)
- Richard Harold Kaufmann Award (Deadline: Jan 15)
- IAS Distinguished Lecturers (Deadline: April 30 ??)

Special Activities Chair

Elisabetta Tedeschi

Tianqi Hong

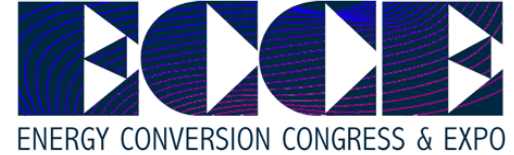
- **Main purpose**

To enhance the collaboration between IPCC and regional power electronics societies in the world

- **Working Group: Grid Interactive Power Converters**
 - Preliminary step for “testing the water”: Xiaonan Lu
 - ECCE 2023 tutorial on **modeling, control and industrial standardization of grid-forming inverters**
 - ECCE 2023 special session on **dynamic modeling and control of grid-interactive power converters**
- **Working Group: Next Steps**
 - Broad impacts within and beyond IPCC
 - Potential outreach with other flagship conferences



Standards



- Dr. Lee Empringham – appointed and engaged in IPCC-related standards activities
- Industry engagement: ITT Goulds Pumps, Sprint Electric, TTPi, Infineon, ST Microelectronics
- IAS-PELS P3380 coordination from IPCC/IPCCSD side



Standards – Lee Empringham



- IPCC to co-sponsor a new project together with PELS
 - P3380 - Recommended Practice for System Stability of AC Power Converters in Data Centers
 - Awaiting confirmation / conversation with PELS
 - Thanks to Daleep Mohla for bringing this to our attention
- Proposal for a new project on unifying standards for integrated industrial motor drives > 15kW
 - Gathering working group and stakeholder engagement
 - Need to scope applicability with other committees
- Proposal for a project based on EMI regulations for LV DC grids

- **New Secretary: Marco di Benedetto**
 - **Assistant Professor, Roma Tre University**
 - **Strong IPCC involvement:**
 - **ECCE topic chairs: 2020-2021**
 - **ECCE session chairs: 2019-2022**
 - **Associate Editor: IEEE Open Journal of Industry Applications**
 - **IPCC member and involvement since 2018**
- **New Special Activity Co-Chair: Lisa Qi**
 - **IEEE Senior Member**
 - **18 granted US patents**
 - **Strong industry leadership experience: ABB, Senior Principal Scientist**
 - **Industry standards experience: solid-state switching, DC circuit breakers, medium-/low-voltage DC grids**



IEEE Transactions on Industry Applications

Industrial Power Converter Committee

Stefano Bifaretti
IEEE IAS IPCC Paper Review Chair

October 31, 2023



Report on IEEE Transactions on Industry Applications

Industrial Power Converter Committee

Stefano Bifaretti

IAS IPCC Transactions Paper Review Chair

University of Rome Tor Vergata, Italy

October 31st, 2023



IPCC Associate Editors

Shafiq Odhano, UK - Transactions Paper Review co-Chair

25 AE in Oct. 2022 - 21 AE in Oct. 2023

- Vivek Agarwal, India
- Norma Anglani, Italy
- Manuel Arias, Spain
- Dong Cao , USA
- Andrea Formentini, Italy
- Jiangbiao He, USA
- Dong Jiang, China
- Petros Karamanakos, Finland
- Mohammed Agamy, USA
- Tianqi Hong, USA
- Fabio Immovili, Italy
- Young-Doo Yoon, Korea
- Xiaonan Lu, USA
- Alessandro Lidozzi, Italy
- Bo Liu, USA
- Santanu Mishra, India
- Marcello Pucci, Italy
- Luca Solero, Italy
- Mi Tang, UK
- Luca Tarisciotti, Chile
- Zheyu Zhang, USA
- Frans Dijkhuizen, Sweden
- Liang Du, USA
- Surin Khomfoi, Thailand
- Riccardo Leuzzi, Italy
- Ke Ma, Denmark
- Vito Monopoli, Italy
- Xu She, USA
- Yongsug Suh, Korea

- In green AEs appointed in 2023
- In blue resigned or expired in 2023
- Additional 3-4 AEs needed

Submitting a manuscript to IPCC

- Paper first must be presented at an IAS-sponsored conference (**within the last 12 months**)
- To obtain a submission invitation send an email to shafiq.odhano@newcastle.ac.uk and stefano.bifaretti@uniroma2.it
ONLY if the paper is ready for submission, including:
 - Paper title and conference paper attached
 - Conference name and date when paper presented
 - Contact Author ID on IAS ScholarOne web site
- An email will be sent to you from S1M with instructions on uploading your paper for review (usually **within 1-2 weeks**)
- 30 days to submit the paper once the invitation has been sent

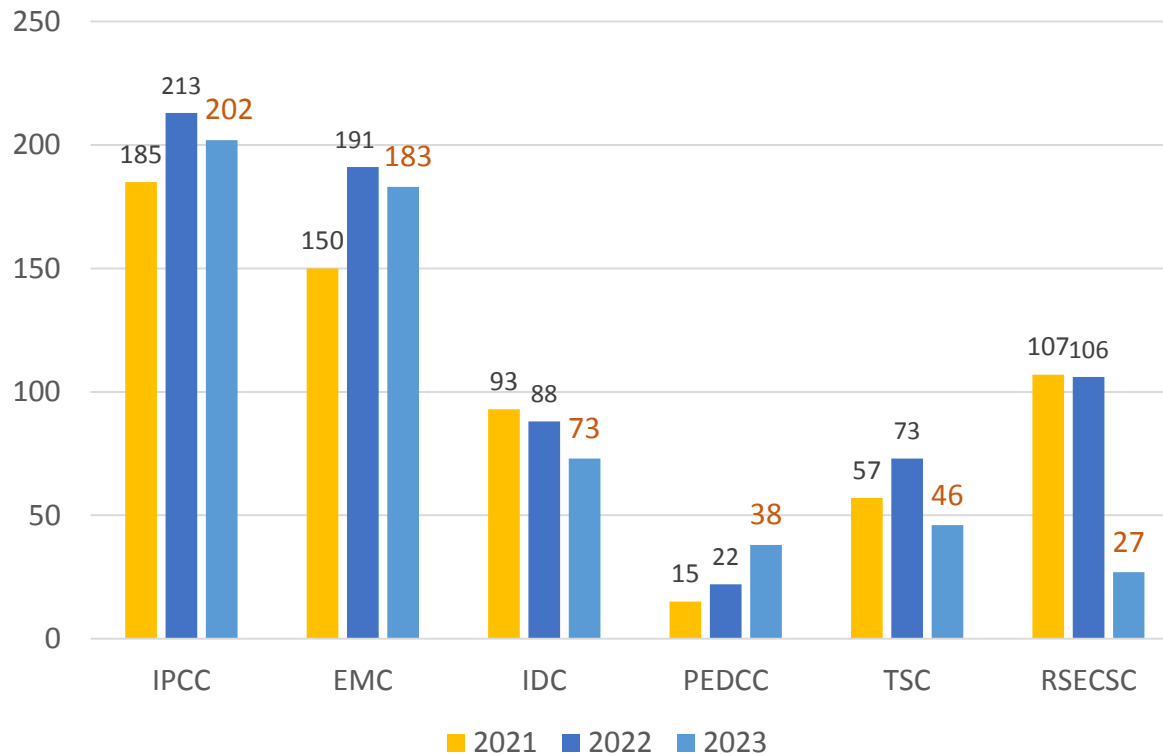
Submitting a manuscript to IPCC

- You **must include the conference paper** version in your Transactions submission reference list.
- Papers need to be different from the conference ones. **Change title and Update/add new material to conference version.** There is no fixed amount of difference, but **at least 20%** of new content is required. Be reasonable.

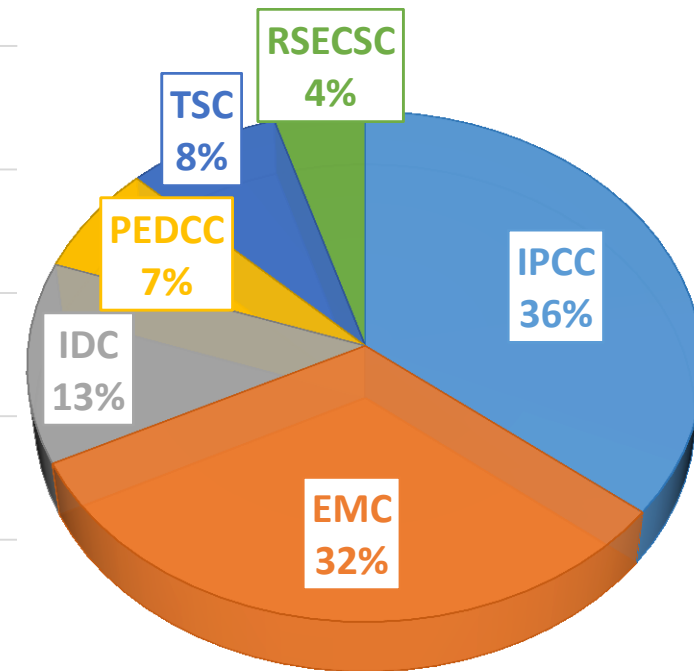
**Please cite relevant TIA
papers!**

Total submissions by Committee

IPCSD Submissions Trend in 2021-2023



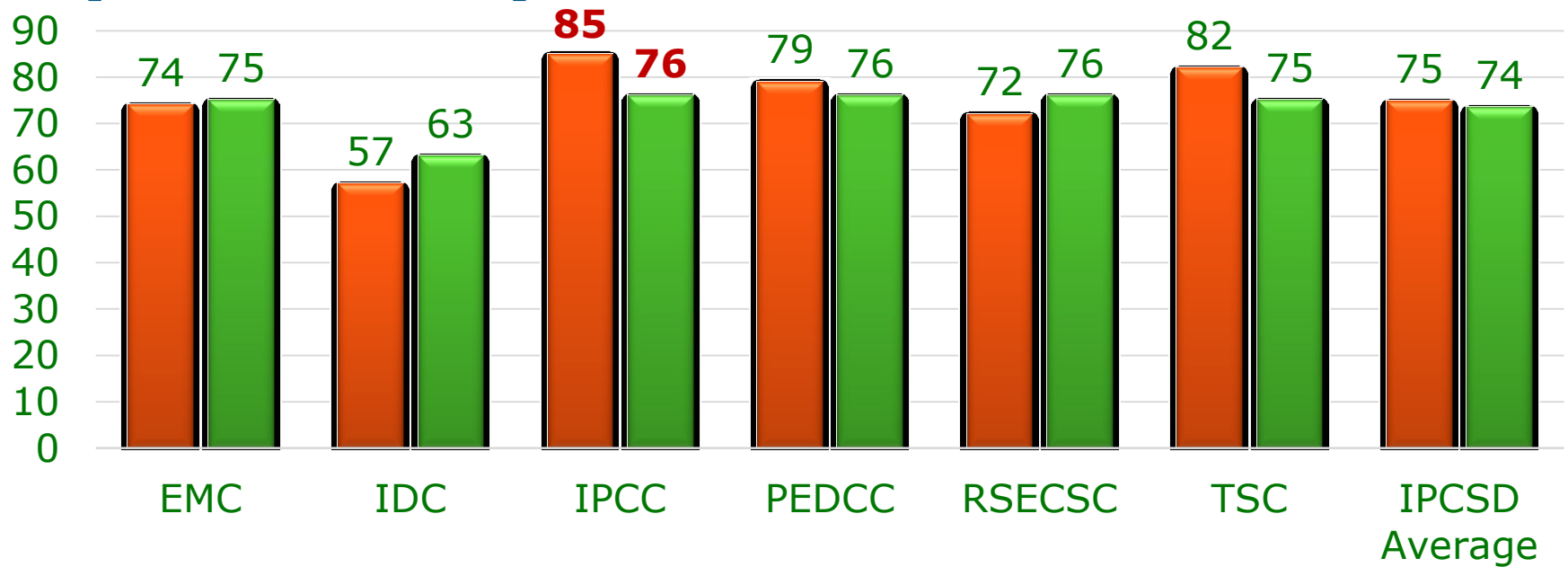
2023 IPCC SUBMISSIONS IMPACT IN IPCSD



IPCC has the largest number of submitted papers still in 2023 and major impact in IPCSD



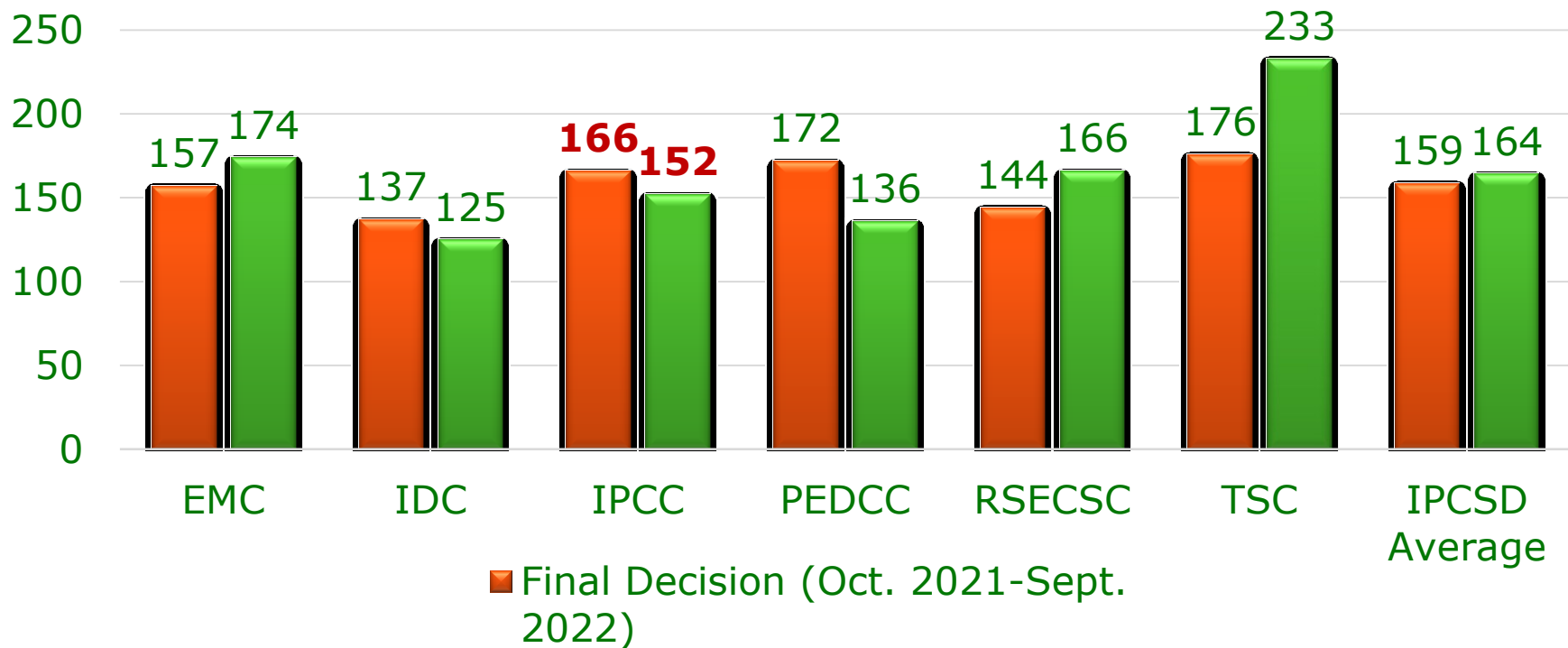
Initial Decision time for IPCSD Technical Committees (12 months)



- Initial Decision (oct. 2021-Sept. 2022)
- Initial Decision (Oct. 2022 - Sept. 2023)

IPCC time to first decision has been improved in 2023

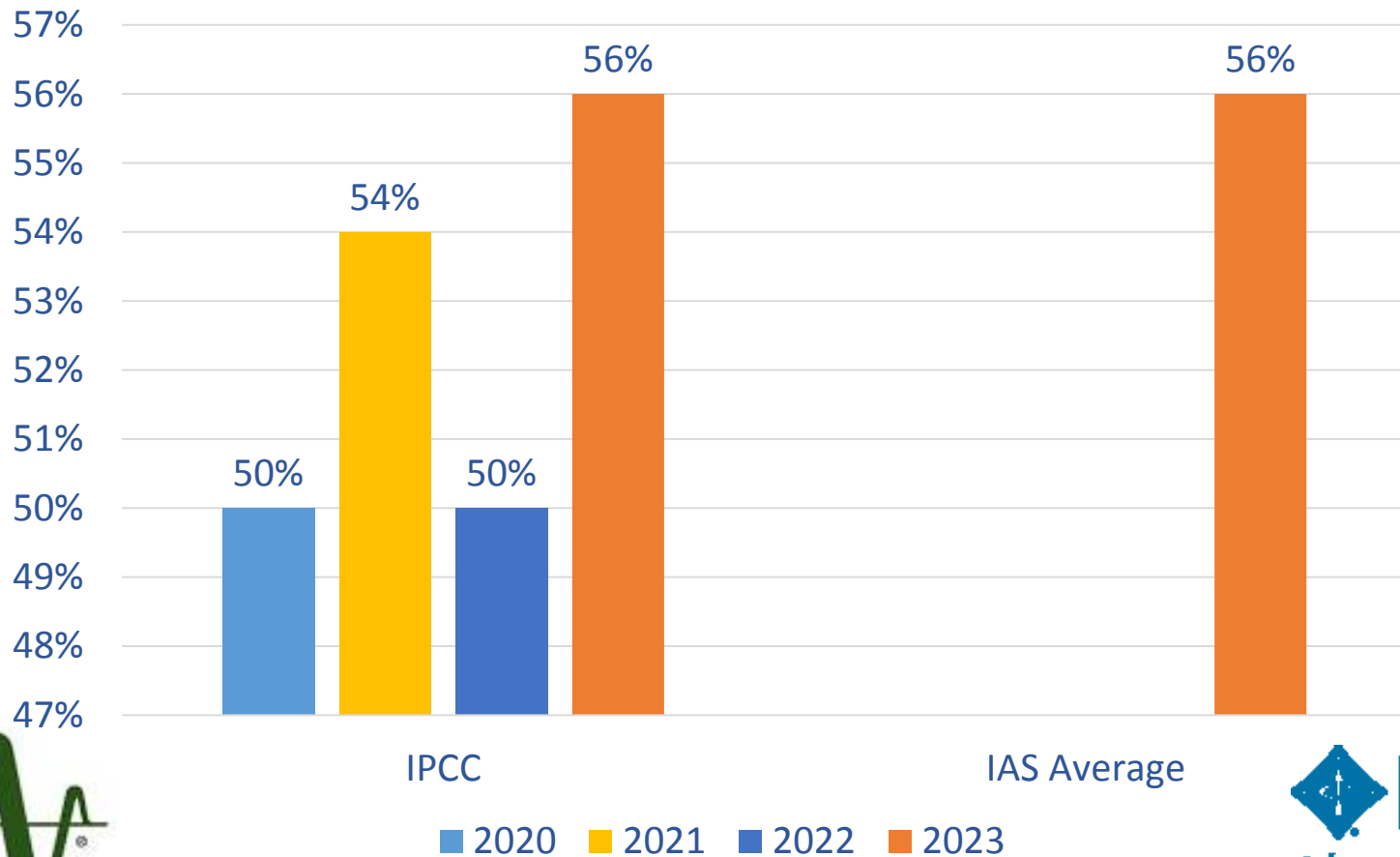
Final Decision time for IPCSD Technical Committees (12 months)

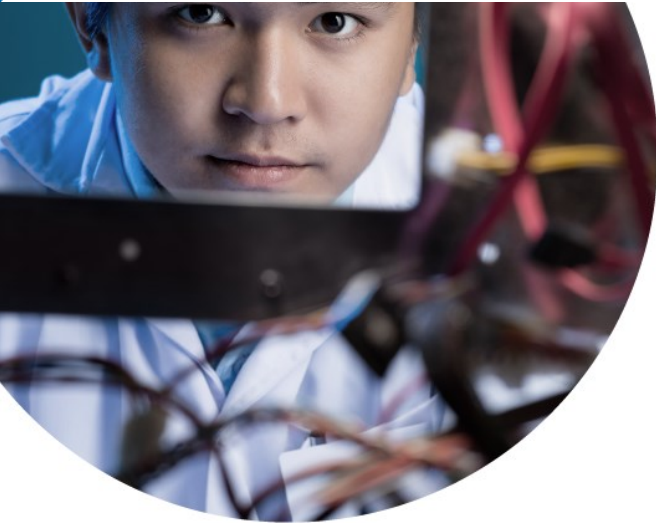


IPCC time to final decision has been improved in 2023

IPCC Acceptance Rate Trend

Trend of Acceptance Rate

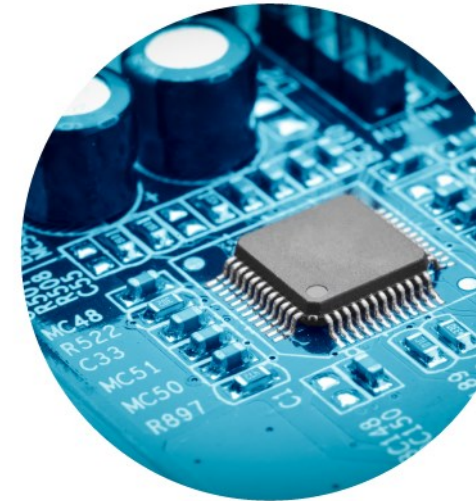




IEEE Open Journal of Industry applications update

EiC: Prof. Pericle Zanchetta

October 2023



Governance

Advisory Board

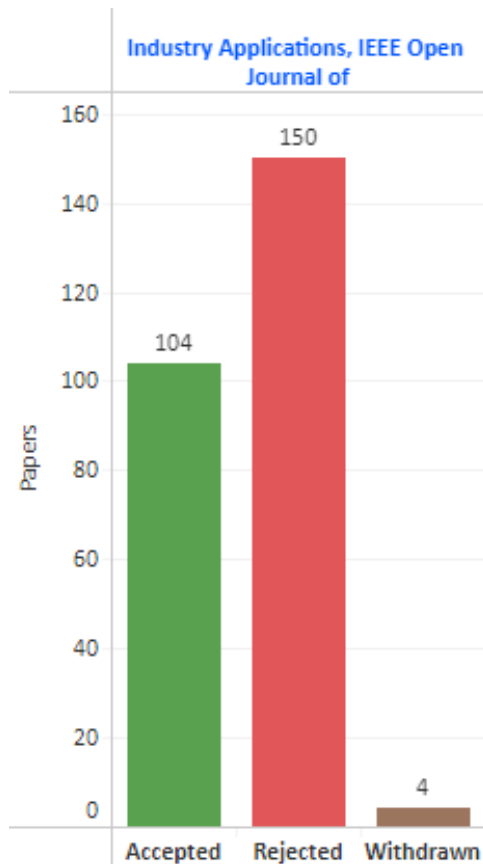
- ▶ Prof. Pericle Zanchetta, University of Nottingham (UK) and University of Pavia (Italy) - **Editor in Chief**
- ▶ Prof. Luca Solero, University of Roma Tre - **Deputy Editor in Chief**
- ▶ Prof. Andy Knight, University of Alberta (Canada) – **President, IEEE IAS**
- ▶ Prof. Leon Tolbert, University of Tennessee, (USA) – **Publications Dept Chair, IEEE IAS**

Editorial Board

- ▶ Composed by the editor in chief, the deputy editor in chief and 19 Associate Editors from all IAS departments.

Journal Statistics

2020-2023



Papers 258

#Accepted 104

#Rejected 150

Acceptance Rate 41%

Avg Days to First Decision 40.6

Avg Days to Final Decision 62.7

Region	Year	Submitting Authors %
Region 1-6 (U.S.A)	2023	23.33%
	2022	22.22%
	2021	20.00%
	2020	23.73%
	2019	9.09%
Region 7 (Canada)	2023	10.00%
	2022	6.94%
	2021	8.75%
	2020	11.86%
	2019	9.09%
Region 8 (Europe/Africa/Middle East)	2023	36.67%
	2022	29.17%
	2021	38.75%
	2020	30.51%
	2019	18.18%
Region 9 (Central/South America)	2023	3.33%
	2022	4.17%
	2021	3.75%
	2020	1.69%
	2019	0.00%
Region 10 (Asia/Pacific)	2023	26.67%
	2022	37.50%
	2021	28.75%
	2020	32.20%
	2019	63.64%

Journal performance

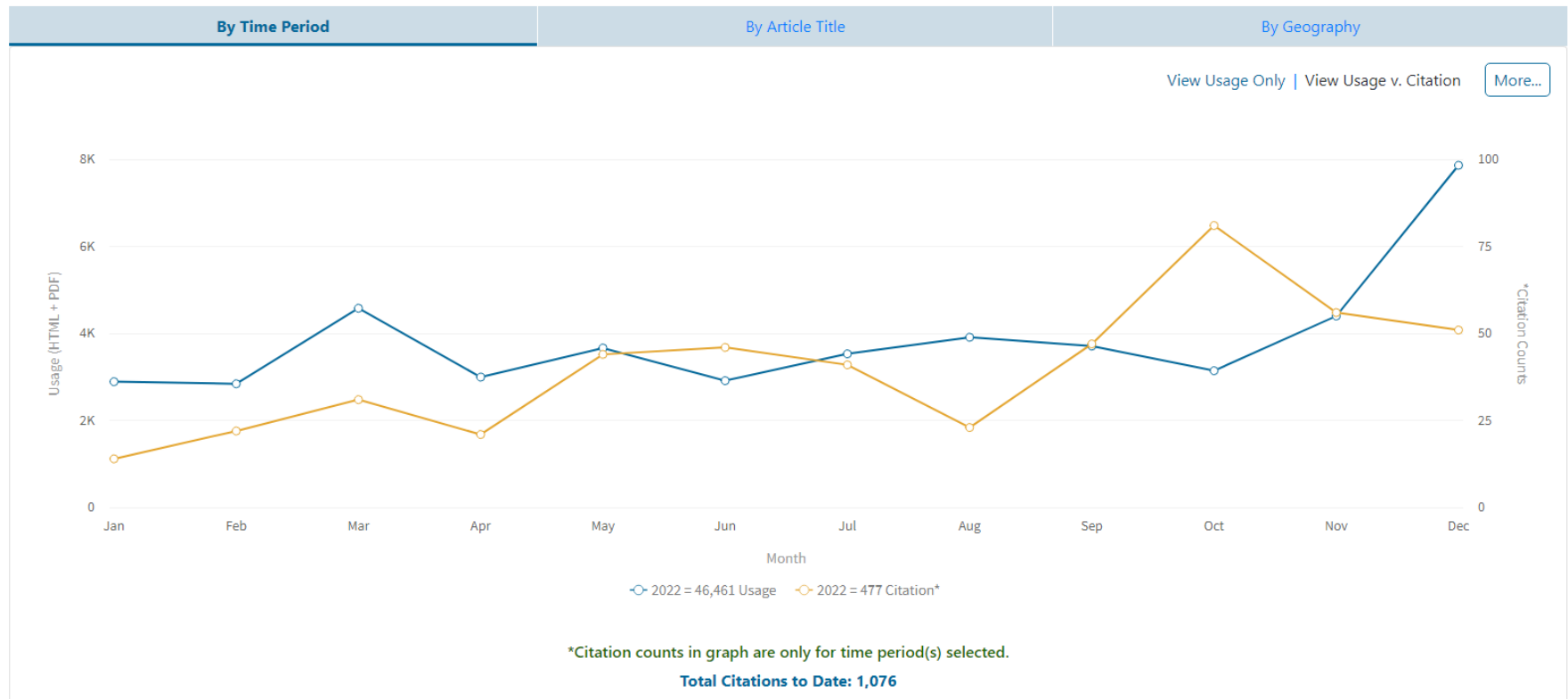
Indexing

- ▶ 4 issues of the OJIA have been released so far:
 - ❖ 2020 (23 papers)
 - ❖ 2021 (31 papers)
 - ❖ 2022 (21 papers)
 - ❖ 2023 (26 papers up to October)
- ▶ The journal checked all boxes for being indexed and receive an IF in 2023 however, due to issues between IEEE publications and Scopus, its registration was delayed.
- ▶ All papers are now present in [Scopus](#), even if the journal is not yet in the Scopus titles list that is updated only twice per year (May and November). It should be there by the end of 2023.

Journal performance

2022

Total Usage for Jan - Dec 2022: **46,461** Usage per Article: **534.03** ⓘ Cites per Article: **13.79** ⓘ Impact Factor: **N/A** ⓘ



Journal performance

2023

Total Usage for Jan - Sep 2023: **68,871** Usage per Article: **598.88** ⓘ Cites per Article: **10.45** ⓘ Impact Factor: **N/A** ⓘ



2023 Special issue IEEE Open Journal of Industry Applications MATRIX CONVERTERS

FREE PUBLICATION – NO APC

Deadline for Submission of Manuscripts: 31/12/2023

Editors: Prof. Pericle Zanchetta and Prof. Pat Wheeler University of Nottingham UK

Invited papers (NO APC)

Review papers on popular subjects are sought from prominent scientist in order to increase the visibility of the journal. Suggestions are welcome

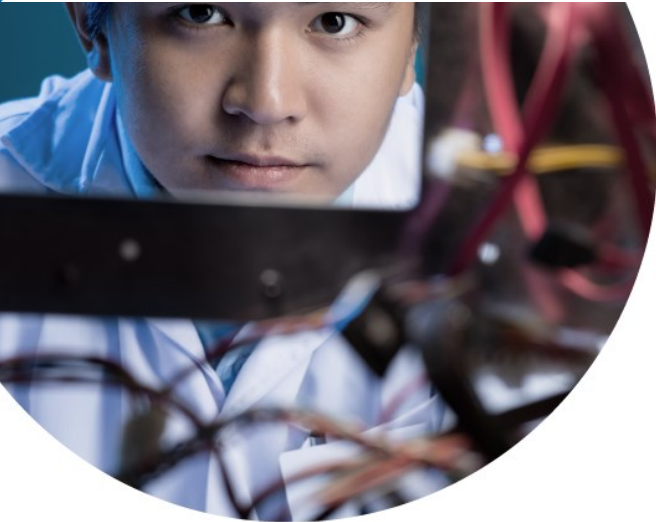
Article Processing Charge (APC): US\$1995 – effective 1 January 2024

Discounts

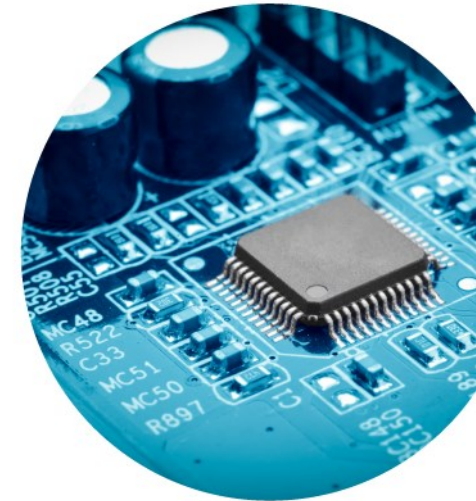
IEEE Members receive a 5% discount.

IEEE Society Members receive a 20% discount.

These discounts cannot be combined.



Thanks for your attention
Questions?



Prize Paper Awards for ECCE 2022

Industrial Power Converter Committee

Stefano Bifaretti
IEEE IAS IPCC Paper Review Chair

October 31, 2023
Nashville, TN, USA



Report on IPCC Prize Papers Awards 2022

Industrial Power Converter Committee

Stefano Bifaretti

IAS IPCC Awards Subcommittee Coordinator

University of Rome Tor Vergata, Italy

October 31th, 2023



IPCC 2022 Prize Papers Awards for ECCE and TIA

Awards Subcommittee

- Norma Anglani, Italy
- Manuel Arias, Spain
- Dong Cao, USA
- Liang Du, USA
- Andrea Formentini, Italy
- Jiangbiao He, USA
- Petros Karamanakos, Finland
- Xiaonan Lu, USA
- Shafiq Odhano, UK
- Alessandro Lidozzi, Italy
- Bo Liu, USA
- Santanu Mishra, India
- Luca Solero, Italy
- Mi Tang, UK
- Luca Tarisciotti, Chile
- Tianqi Hong, USA
- Mohammed Agamy, USA
- Fabio Immovili, Italy

All the TIA Associate Editors for IAS-IPCC have been included in the Awards Subcommittee, except who did not accept the invitation.

Papers have been managed to avoid any conflicts for the co-authors who have papers in the competition.

IPCC Prize Papers Awards for ECCE 2022

Up to 2021, the papers for the IPCC ECCE prize awards have been selected among the ECCE papers submitted to TIA for review and then accepted for publication.

ECCE 2022 Prize Rules

- IPCC was responsible for any paper included in Track E and F
- According to the 2022 IPCSD guidelines, a preselection process has been performed to reduce the workload of the Awards Subcommittee (about 116 papers for Track E and 72 papers for Track F)
- **Papers have been preselected based on the digests' average score**
- **Top 12 papers from Track E and Top 10 papers from Track F have been evaluated by the Awards Subcommittee**
- Discrepancy between Tracks is due to the equal average scores obtained by the Track E papers ranked from the 4th to the 12th position

IPCC Prize Paper Awards for ECCE 2022

Papers **evaluation** has been based on the following criteria:

- Degree of novelty
- Presentation
- Industrial impact

Final Ranking IPCC ECCE 2022 Awards

Rank	Authors	Paper Title
1	Ripun Phukan, Xingchen Zhao, Che-Wei Chang, Rolando Burgos, Dong Dong, Arnaud Plat and Debbou Mustapha	Optimized DC-AC EMI Filter Design for DC-Fed High Speed SiC-Based Motor Drive
2	Thiago Pereira, Yuqi Wei, Homer A. Mantooth and Marco Liserre	Analysis and Design of a Multiport Resonant DC Transformer for Solid-State Transformer Applications
3	Ryan Olson, Ahmad El Shafei, Robert M. Cuzner, Yue Zhao, Ma Zhuxuan, Adel Nasiri and Tianchen Li	Derivation and Validation of a Common-Mode Model for a Neutral Point Clamped Dual Active Bridge



The Industrial Power Converter Committee

of the

IEEE Industry Applications Society

*takes pleasure in presenting the
2022 Energy Conversion Congress and Exposition First Prize Paper Award*

Ripun Phukan

*For the manuscript co-authored with Xingchen Zhao, Che-Wei Chang, Rolando Burgos,
Dong Dong, Debbou Mustapha and Arnaud Plat*

Entitled,

“Optimized DC-AC EMI Filter Design for DC-Fed High Speed SiC-Based Motor Drive”



October 2023

Andy Knight

President

IEEE Industry Applications Society





The Industrial Power Converter Committee

of the

IEEE Industry Applications Society

*takes pleasure in presenting the
2022 Energy Conversion Congress and Exposition Second Prize Paper Award*

Thiago Pereira

For the manuscript co-authored with Homer A. Mantooth, Yuqi Wei and Marco Liserre

Entitled,

“Analysis and Design of a Multiport Resonant DC Transformer for Solid-State Transformer Applications”



October 2023

Andy Knight

President

IEEE Industry Applications Society





The Industrial Power Converter Committee

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IEEE Industry Applications Society

*takes pleasure in presenting the
2022 Energy Conversion Congress and Exposition Third Prize Paper Award*

Ryan Olson

*For the manuscript co-authored with Ahmad El Shafei, Robert M. Cuzner, Yue Zhao,
Adel Nasiri, Tianchen Li and Ma Zhuxuan*

Entitled,

“Derivation and Validation of a Common-Mode Model for a Neutral Point Clamped Dual Active Bridge”



October 2023

Andy Knight

President

IEEE Industry Applications Society



IPCC Prize Papers Awards for Transactions on Industry Applications 2022

- Papers published in 2022 and submitted for review through the IPCC are eligible
- According to the 2022 IPCSD guidelines, to reduce the workload of the Awards Subcommittee (about 100 papers published in 2022), papers have been preselected based on the M-score provided by Manuscript Central
- The **top-10 papers have been included in the ballot**

Final Ranking for IPCC TIA 2022 Awards

Rank	Authors	Paper Title
1	Luca Tarisciotti, Linglin Chen, Shuai Shao, Tomislav Dragicevic, Patrick Wheeler, Pericle Zanchetta	Finite Control Set Model Predictive Control for Dual Active Bridge converter
2	Fanfan Lin, Xin Zhang, Xinze Li, Changjiang Sun; Wenjian Cai, Zhe Zhang	Automatic Triple Phase Shift Modulation for DAB Converter with Minimized Power Loss
3	Xinyuan Du, Fei Diao, Zhe Zhao, Yue Zhao	An All Silicon Carbide 3kV/540V Series-Resonant Converter for Electric Aircraft Systems



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of the

IEEE Industry Applications Society

*takes pleasure in presenting the
2022 First Prize Paper Award - TIA*

Luca Tarisciotti

*For the manuscript co-authored with Linglin Chen, Shuai Shao, Tomislav Dragicevic,
Patrick Wheeler and Pericle Zanchetta*

Entitled,

“Finite Control Set Model Predictive Control for Dual Active Bridge converter”



October 2023

Andy Knight

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*takes pleasure in presenting the
2022 Second Prize Paper Award - TIA*

Fanfan Lin

*For the manuscript co-authored with Xin Zhang, Xinze Li, Changjiang Sun,
Zhe Zhang and Wenjian Cai*

Entitled,

“Automatic Triple Phase Shift Modulation for DAB Converter with Minimized Power Loss”



October 2023

Andy Knight

President

IEEE Industry Applications Society





The Industrial Power Converter Committee

of the

IEEE Industry Applications Society

*takes pleasure in presenting the
2022 Third Prize Paper Award - TIA*

Xinyuan Du

For the manuscript co-authored with Fei Diao, Yue Zhao and Zhe Zhao

Entitled,

“An All Silicon Carbide 3kV/540V Series-Resonant Converter for Electric Aircraft Systems”



October 2023

Andy Knight

President

IEEE Industry Applications Society



IAS Sponsored Conferences



Flagship Conference APEC 2024



APEC 2024 Track Support from IPCC

- AC-DC Converters
- Motor Drives and Inverters
- Devices and Components
- Power Electronics Integration and Manufacturing
- Control
- Transportation Power Electronics
- Power Electronics Applications



Flagship Conference ECCE Asia 2024



- **Venue: Chengdu Century City Convention and Exhibition Center**
- **Date: May 17 – 20, 2024**
- **Digest due: November 30, 2023**





IEEE ENERGY CONVERSION CONGRESS & EXPO PHOENIX, ARIZONA, USA ☀️ OCT. 20-24

ECCE 2023 Steering Committee Meeting

General Chair, Rolando Burgos (rburgos@ieee.org)
General Co-Chairs, Sudip Mazumder & Pedro Rodriguez



Organization Update

- Logo competition winner:
 - Hitesh Kumar!
- Submission deadlines:
 - March 8, **digests**
 - March 8, **tutorial proposals**
 - April 1, **special session proposals**
 - June 7, **late breaking research briefs**



**Please sign up
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