

# **Industrial Power Converters Committee Meeting**

**Detroit, Michigan  
October 11<sup>th</sup>, 2022**

- **Approval of the Agenda and Approval of 2021 Meeting Minutes**  
(<http://sites.ieee.org/ipcc/minutes>)
- **Officers Report**
  - ECCE 2022
- **Reports from Subcommittees**
  - Standards
  - Fellow and awards nomination
  - Special activities
- **IAS Transactions**
  - Associate Editor acknowledgment
  - IAS Transactions review statistics
  - IEEE Open Journal of Industry Applications
  - IPCC prize paper awards
- **Promotion for IAS sponsored 2023 conferences**
  - Conferences with Technical Co-sponsorship
  - Conferences with Financial Co-sponsorship
- **Planning of ECCE 2023**
  - Call for Special Sessions and Tutorials
  - Volunteers as Topic Chairs and Session Chairs
- **Closing remarks & Motion to adjourn**



# IPCC Chairman Report

## Xiaonan Lu



- **Membership** roster is at 442 (+7 people since last meeting)
  - Online registration at <http://sites.ieee.org/ipcc/>
  - 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.

## Becoming an Active Member

- Reviewer, track chair, officer.
- 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

#### General Chair:

**Emmanuel Agamloh**  
Baylor University, USA  
[emmanuel\\_agamloh@baylor.edu](mailto:emmanuel_agamloh@baylor.edu)

#### Finance Chair:

**Shanelle Foster**  
Michigan State University, USA  
[hogansha@egr.msu.edu](mailto:hogansha@egr.msu.edu)

#### TPC Co-Chairs:

**Navid Zargari**  
Rockwell Automation, Canada  
[nrzargari@ra.rockwell.com](mailto:nrzargari@ra.rockwell.com)

#### Annette Muetze

Technische Universität Graz, Austria  
[muetze@tugraz.at](mailto:muetze@tugraz.at)

#### Mohammad Islam

Halla Mechatronics, USA  
[mohammad.s.islam@ieee.org](mailto:mohammad.s.islam@ieee.org)

#### Andrea Cavagnino

Politecnico di Torino, Italy  
[andrea.cavagnino@polito.it](mailto:andrea.cavagnino@polito.it)

#### Gerry Moschopoulos

Western University, Canada  
[gmoschop@uwo.ca](mailto:gmoschop@uwo.ca)

#### Brandon Grainger

University of Pittsburgh, USA  
[bmg10@pitt.edu](mailto:bmg10@pitt.edu)

#### Publications:

**Jiangbiao He**  
University of Kentucky, USA  
[Jiangbiao.He@uky.edu](mailto:Jiangbiao.He@uky.edu)

#### Xiaonan Lu

Purdue University, USA  
[xiaonan.lu@ieee.org](mailto:xiaonan.lu@ieee.org)

#### Silvio Vaschetto

Politecnico di Torino, Italy  
[silvio.vaschetto@polito.it](mailto:silvio.vaschetto@polito.it)

#### Local Chairs:

**Abraham Gebregergis**  
Mar Automotive, USA  
[abraham.g.us@ieee.org](mailto:abraham.g.us@ieee.org)

**Al-Thaddeus Avestruz**  
University of Michigan, USA  
[avestruz@umich.edu](mailto:avestruz@umich.edu)

#### Exhibition Chairs:

**David Morrison**  
How2Power.com  
[david@how2power.com](mailto:david@how2power.com)

#### Grant Pitel

Magna-Power Electronics, USA  
[gpitel@magna-power.com](mailto:gpitel@magna-power.com)

#### Industry Partnerships Chairs:

**Avoki Omekanda**  
General Motors, USA  
[avoki.omekanda@ieee.org](mailto:avoki.omekanda@ieee.org)

#### Mazharul Chowdhury

General Motors, USA  
[mazharul.chowdhury.us@ieee.org](mailto:mazharul.chowdhury.us@ieee.org)

#### Joseph Song-Manguelle

Oak Ridge National Lab  
[songmanguelj@ornl.gov](mailto:songmanguelj@ornl.gov)

#### Tutorial Chairs

**Pete Wung**  
University of Dayton, USA  
[pwung@earthlink.net](mailto:pwung@earthlink.net)

#### Xu She

Lunar Energy  
[xshe@ieee.org](mailto:xshe@ieee.org)

#### Xiaonan Lu

Purdue University, USA  
[xiaonan.lu@ieee.org](mailto:xiaonan.lu@ieee.org)

#### Conference Webmasters:

**Dong Cao**  
University of Dayton, USA  
[dcao02@udayton.edu](mailto:dcao02@udayton.edu)

#### Yuan Li

Florida State University, USA  
[yli@caps.fsu.edu](mailto:yli@caps.fsu.edu)

#### IEEE Local Chapter Chairs:

**PELS: Van Wagner**

#### Publicity Chairs:

**Zheyu Zhang**  
Clemson University, USA  
[zheyu.zhang@ieee.org](mailto:zheyu.zhang@ieee.org)

#### Zhi (George Gao)

Danfoss Drives, USA  
[zhigao@ieee.org](mailto:zhigao@ieee.org)

#### Conference Management Company

**Rebecca Krishnamurthy**  
RNA Associates, USA  
[rebecca.k@rna-associates.com](mailto:rebecca.k@rna-associates.com)

#### Plenary Session Chairs:

**Ryan Li**  
University of Alberta, Canada  
[yunwei.li@ualberta.ca](mailto:yunwei.li@ualberta.ca)

#### John Shen

Simon Fraser University, Canada  
[zshen6@iit.edu](mailto:zshen6@iit.edu)

#### Special Sessions Chairs:

**Yue Cao**  
Oregon State University, USA  
[Yue.Cao@oregonstate.edu](mailto:Yue.Cao@oregonstate.edu)

#### Sara Roggia

MagniX Aero, USA  
[sara.roggia@gmail.com](mailto:sara.roggia@gmail.com)

#### WIE Chairs:

**Lijun He**  
General Electric, USA  
[lijun.he@ge.com](mailto:lijun.he@ge.com)

#### Norma Anglani

Università di Pavia, Italy  
[nanglani@unipv.it](mailto:nanglani@unipv.it)

#### Jin Ye

University of Georgia, USA  
[Jin.Ye@uga.edu](mailto:Jin.Ye@uga.edu)

#### Student Activities Chairs:

**Xiu Yao**  
University at Buffalo, USA  
[xiuyao@buffalo.edu](mailto:xiuyao@buffalo.edu)

#### Sandun Kuruppu

Saginaw Valley State University, USA  
[skuruppu@svsu.edu](mailto:skuruppu@svsu.edu)

#### Awards Chairs:

**Akshay Rathore**  
Singapore Institute of Technology,  
Singapore  
[akshay.k.rathore@ieee.org](mailto:akshay.k.rathore@ieee.org)

#### Chiara Boccaletti

University of Rome, Italy  
[chiara.boccaletti@uniroma1.it](mailto:chiara.boccaletti@uniroma1.it)

#### Attendee Outreach and Engagement Chairs:

**Kevin Taylor**  
IEEE Career Workforce Chair  
[k2356@aol.com](mailto:k2356@aol.com)

#### Mengqi Wang

University of Michigan, USA  
[mengqi@umich.edu](mailto:mengqi@umich.edu)

#### Virtual Platform Chairs:

**Anant Singh**  
**Chair**  
Halla Mechatronics, USA  
[anant.singh@halla.com](mailto:anant.singh@halla.com)

#### Arnab Sarkar

**Vice Chair**  
Indian Institute of Technology  
Bombay, India  
[asarkar783@gmail.com](mailto:asarkar783@gmail.com)

#### Hitesh Kumar

**Vice Chair**  
Indian Institute of Technology  
Kanpur, India  
[hitesh.do.am@gmail.com](mailto:hitesh.do.am@gmail.com)

#### Virtual Platform Coordinators:

**Komal Saleem**  
Queen Mary University of London  
[enr.komalsaleem@gmail.com](mailto:enr.komalsaleem@gmail.com)

#### Rounak Siddaiah

University of Wisconsin-Milwaukee, USA  
[rounaksiddaiah@gmail.com](mailto:rounaksiddaiah@gmail.com)

#### Sina Vahid

Marquette University, USA  
[sina.vahid@gmail.com](mailto:sina.vahid@gmail.com)

#### Narayan Rajagopal

Virginia Tech, USA  
[nrajagopal@vt.edu](mailto:nrajagopal@vt.edu)

#### Sony Susan Varghese

McGill University, Canada  
[sosuva@gmail.com](mailto:sosuva@gmail.com)

#### Gozde Sivka

Portland State University, USA  
[gozdesivka95@gmail.com](mailto:gozdesivka95@gmail.com)

#### Kamal Chandra Paul

University of North Carolina  
at Charlotte, USA  
[kpaul9@uncc.edu](mailto:kpaul9@uncc.edu)

#### Prince Jain

Chandigarh University, Mohali, India  
[princeece48@gmail.com](mailto:princeece48@gmail.com)

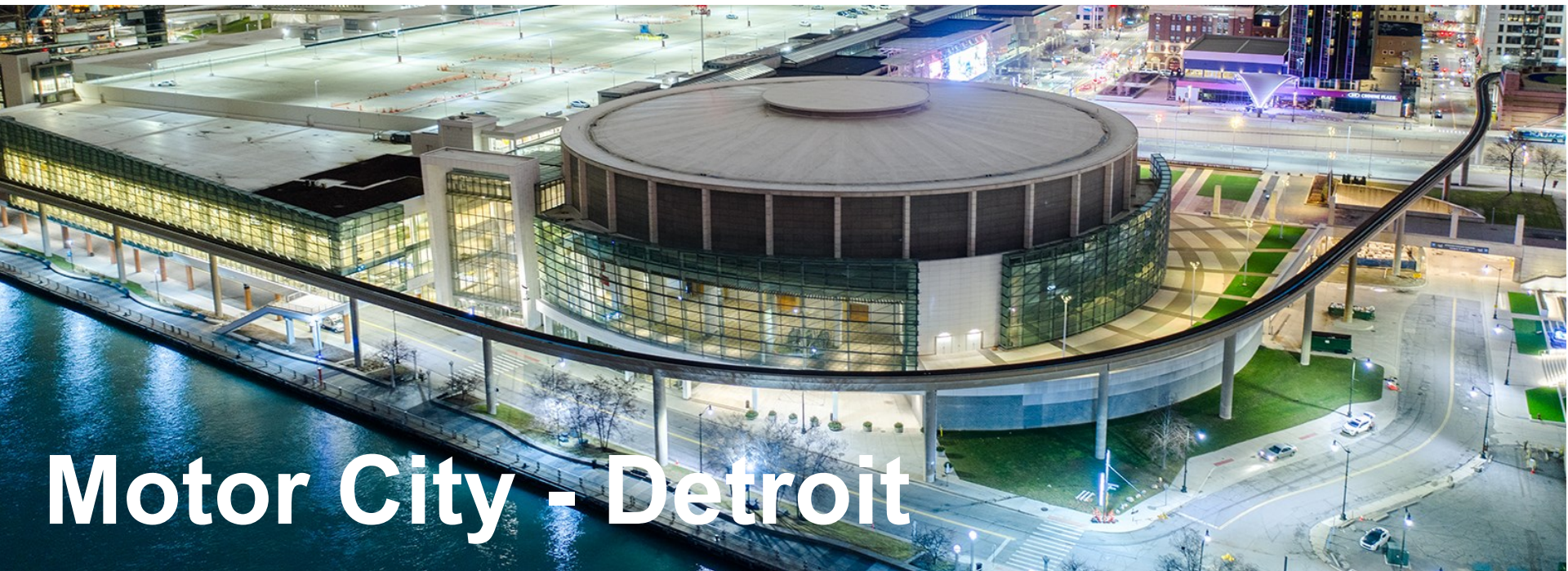
#### Yuchen He

Florida State University, USA  
[yuchenhe971010@gmail.com](mailto:yuchenhe971010@gmail.com)

IPCC Members



- **Venue:** Detroit, Michigan (Huntington Place)
- **Dates:** October 9-13, 2022 (Virtual: Oct 17-19, 2022)



**Motor City - Detroit**

- **Hybrid Conference**
  - ECCE's first **In-person/Remote** Conference
  - Several Challenges (Rock/Hard Places); e.g., Promotion
- **IEEE Student Job Fair**
  - Participation of Exhibitors and their HR Teams
- Record Number of **Exhibitors and Sponsors (53)**
  - First time with **3 Platinum** Sponsors
- Record Number of Tutorials (**24**)
- Introduction of **Exhibitor Tutorials**
  - **3 Exhibitor Tutorials** Delivered by Exhibitors
- Featured **IAS Posters** in the ECCE Exhibit Hall
- Two (2) Virtual ECCE **Session Chairs Trainings**
  - Sept 29<sup>th</sup>, 2022; training on handling oral, poster and remote sessions
- Opening and **Closing Receptions** at ECCE
  - Network with drinks and desert with a live band at end of conference
- Strolling Dinner at **Ford Museum with Luxury Shuttle** Transportation
  - Industry Networking Event off site
- **Car Show**
  - **7 Cars** in Expo Hall and Atrium form the Big 3

Two deadline extensions:

- ✓ Jan. 28<sup>th</sup> and Feb. 7<sup>th</sup>
- ✓ Portal closed to digest: Feb. 19<sup>th</sup>

Number of submissions:

Digests (Total): 1407

Digests (valid): 1394

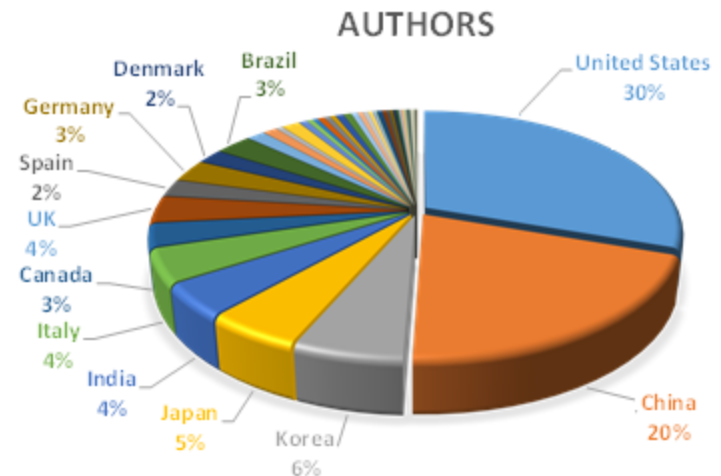
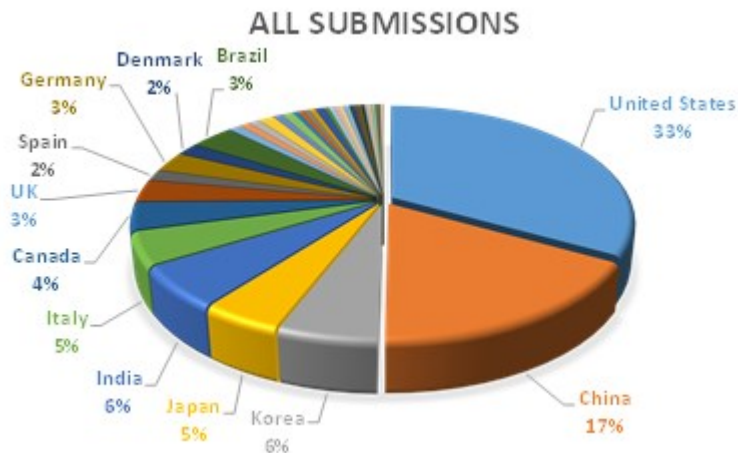
Special sessions: 24 (17 accepted)

Tutorials: 36 (24 accepted)

Countries of first author: 65

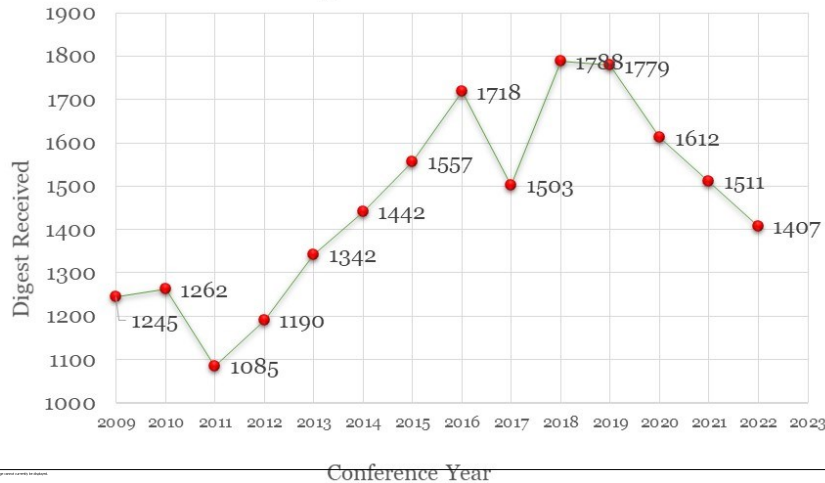
Authors: 4995

Digests/submissions: 1407





Digest Submissions



**Review Start:** Feb 16, 2022

**Review End:** Apr 5, 2022

6 TPCs, 32 VCs, ~ 160 TCs

~ 2,000 Reviewers

	3 reviews	4 reviews	5 reviews	Total	Average reviews/paper
<b>Papers</b>	<b>114</b>	<b>498</b>	<b>782</b>	<b>1394</b>	<b>4.5</b>
<b>n0. of review</b>	<b>342</b>	<b>1992</b>	<b>3910</b>	<b>6244</b>	

Two virtual TPC meetings:

- Saturday, April 9<sup>th</sup>
- Saturday, April 23<sup>rd</sup>

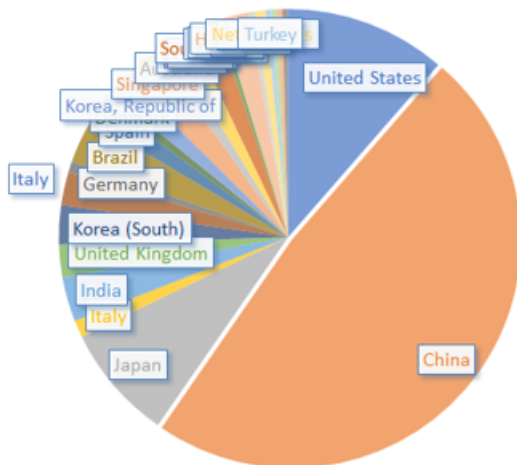
Decision emailed: Saturday, April 30<sup>th</sup>

Overall acceptance rate: **68%**

## Remote Sessions:

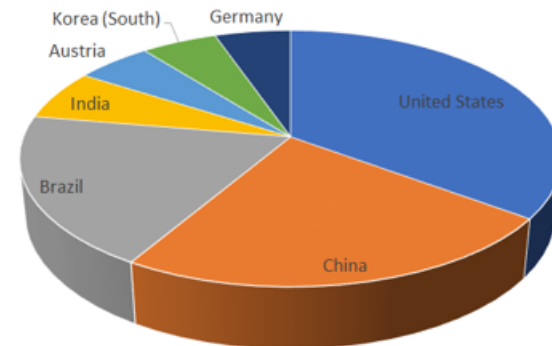
- Mostly in Asia and reflects covid restrictions
- TPCs handled many change requests
- Two virtual Training sessions for all session chairs, including Remote Chairs on Sept 9<sup>th</sup>, 2022

About **27%** of papers accepted opted to **present remotely** and authors were mostly from these regions



Track	Item	ORAL Program	POSTER Program	REMOTE Program	Total
A	# Sessions	9	2	3	14
	# Papers	36	9	26	71
B	# Sessions	9	2	4	15
	# Papers	36	10	36	82
C	# Sessions	3	2	1	6
	# Papers	12	12	8	32
D	# Sessions	8	1	2	11
	# Papers	32	9	14	55
E	# Sessions	17	2	5	24
	# Papers	68	13	38	119
F	# Sessions	18	4	4	26
	# Papers	72	35	35	142
G	# Sessions	18	6	4	28
	# Papers	71	35	36	142
H	# Sessions	9	2	2	13
	# Papers	34	24	21	79
I	# Sessions	10	3	3	16
	# Papers	40	20	25	85
K	# Sessions	6	1	2	9
	# Papers	25	5	19	49

About **10%** of papers accepted were either **not submitted or withdrawn**, mostly from these regions



IPCC Fellow and Award Nominating Chair  
**Robert Guenther**

- Andrew W. Smith Outstanding Young Member Achievement Award (Deadline: March 15)
- Outstanding Young Member Service Award (Deadline: March 15)
- Distinguished Service Award (Deadline: March 15)
- Outstanding Achievement Award (Deadline: March 15)
- Kliman Award (Deadline: June 1)
- IAS Distinguished Lecturers (Deadline: March 31)
- IEEE Fellow (Deadline: March 1)

**Action Items and Preparation**

- This Committee can support IPCC members seeking elevation to Fellow Grade by
  - Helping prospective nominees (**Senior members of IPCC**) looking for a nominator
  - Providing basic guidance about the fellow process
  - At the request of the nominee, can provide one of the endorsement letters supporting the nomination.
  - Contact [RNguenther@gmail.com](mailto:RNguenther@gmail.com)

- It is important that this subcommittee gets a list of IPCC Senior Members shortly after the IPCC meeting (2 weeks?) so that each Senior Member can receive a reminder email about the Fellow due dates and be offered Committee support.
- We are now past October 1, 2022, the process is underway (or soon to be) to select the Fellow class of 2024. All nominations must be completed by March 1, 2023.
- Now is the time to get started! Please contact us if you need some guidance.



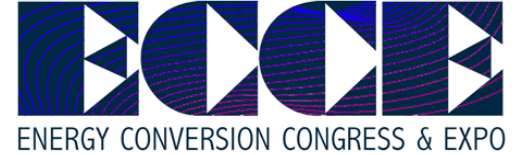
- **Send reminders by October 28, 2022 to IPCC Senior Members that Nomination is under way (2<sup>nd</sup> reminder by January 13, 2023). We can provide guidance as well a support a request for an IPCC endorsement of the Fellow nomination.**
- **At IPCC meetings, encourage “Member” Level members of the IPCC committee to move up to Senior member.**  
**<https://www.ieee.org/membership/grade-elevation.html> and then go to section on Senior member Grade (It’s a fully online process, time-efficient)**

### Tips on Preparing an Effective Nomination:

- **Select the appropriate category:**
  - Application Engineer/Practitioner.
  - Educator.
  - Research Engineer/Scientist.
  - Technical Leader.
- **Zero-in in the nominee's 1 or 2 major areas of work that have made the biggest impact in her/his field**
- **Make sure that the supporting evidence consisting of major publications, patents, references and endorsements all align in clear support of the major 1 or 2 areas of the nominee's work.**
- **The online nomination form has defined "word count" values for each section so be concise so that the evaluating committee is left with no doubt as to the significance of the 1 or 2 major contributions of the nominee.**
- **For considerably more detail, refer to the IEEE document on "How to Write an Effective Nomination": [https://www.ieee.org/content/dam/ieee-org/ieee/web/org/members/writing\\_effective\\_nominations.pdf](https://www.ieee.org/content/dam/ieee-org/ieee/web/org/members/writing_effective_nominations.pdf)**



# Statistics from IEEE Fellow Class of 2022



	Voting Membership	Nominations Received	Nominees Elevated	% of Total Voting Membership	% of Total Nominations Received	% of Total Nominees Elevated	% Success
Regions 1-6 (U.S.)	148,010	433	152	45.0%	42.1%	48.9%	35.1%
Region 7 (Canada)	13,664	44	12	4.2%	14.1%	3.9%	27.3%
Region 8 (Europe, Mid East, Africa)	59,383	221	74	18.1%	21.5%	23.8%	33.5%
Region 9 (Latin America)	10,158	13	1	3.1%	1.3%	0.3%	7.7%
Region 10 (Asia and Pacific)	97,451	318	72	29.7%	30.9%	23.2%	22.6%
Total	328,666	1029	311	100.0%	100.0%	100.0%	30.2%

Society/Council	Voting Membership	Nominations Received	Nominees Elevated	% of Total Voting Membership	% of Total Nominations Received	% of Total Nominees Elevated	% Success
IA	9,777	35	10	3.0%	3.4%	3.2%	28.6%



# IAS Awards and Deadlines for Nomination



**IAS Awards and Deadlines for Nomination Submission for 2023:**

**Self-nomination is not permitted.**

**<https://ias.ieee.org/awards.html>**

**Andrew W. Smith Outstanding Young Member Achievement Award (Submission Deadline is 1 April)**

• [On-line submission form](#)

**Distinguished Service Award (Submission Deadline is 1 April)**

• [On-line submission form](#)

**Outstanding Achievement Award (Submission Deadline is 1 April)**

• [On-line submission form](#)

**Outstanding Young Member Service Award (Submission Deadline is 1 April)**

• [On-line submission form](#)

**IAS Outstanding Educator/Mentor Award (Submission Deadline is 1 April)**

• [On-line submission form](#)

**Kliman Award (Submission Deadline is June 1)**

Special Activities Chair

**Elisabetta Tedeschi**

**Tianqi Hong**

- **Main purpose**

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

- **Strategies**

To initiate IAS-IPCC webinar series and increase its global participation





# Special Activities



- **Launching Two Working Groups (WGs)** – Elisabetta Tedeschi, Tianqi Hong, and Xiaonan Lu
  - **WG1: Grid Interactive Power Converters**
  - **Topic:** design and implementation of grid-interactive power converters in various applications
  - **Motivation:** seek broader impacts on power converters from the IPCC perspective; theme-specific technical working group to stimulate IPCC member participation
  - **WG2: Membership Growth in Under-represented Groups**
  - **Topic:** in coordination with WIE and other under-represented groups to seek diversified membership growth
  - **Motivation:** equity-oriented growth and outreach; seek future candidates for IPCC officer slate

- **Launching Two Working Groups (WGs)** – Elisabetta Tedeschi, Tianqi Hong, and Xiaonan Lu
  - **WG1: Grid Interactive Power Converters**
  - **WG2: Membership Growth in Under-represented Groups**
  - **Target Action Items:**
    - IPCC support in ECCE 2023 (Vice Chairs, Topic Chairs, among others)
    - IPCC support in APEC 2023 (Session Chairs, among others)
    - ***Mentor-Mentee Program***
    - IPCC-led Special Sessions in future ECCE or APEC (e.g., the EV special session in ECCE 2020 organized by Po-Tai and Xiaonan)
    - **JESTPE Special Issue Proposal: Situation-Aware Power Electronics**

***Call for participation to announce in  
ECCE 2022 IPCC meeting!!***



# Standards



Standards Chair

**Lee Empringham**

***Standards Activities Restarted***

➤ **IPCC Standards Chair (Dr. Lee Empringham) newly appointed**  
**Activity this year has concentrated on industrial engagement, information gathering and dissemination**

- **Disseminate the activities of IPCC at industrially focused events:** Driving the Electric Revolution, PCIM Nuremberg, PEMC annual conference, CPE annual conference
- Encourage industry to get involved
- Distill feedback to determine where there is a lack of standardization within the industrial power converters and drives landscape
- **Create standards working group:** activity regarding standards for Integrated industrial drives

Companies such as ITT Goulds Pumps, Sprint Electric, TTPi, Infineon, ST Microelectronics

**We are looking for potential standard project proposals from IPCC committee members from this ECCE 2022 committee meeting.**

# IEEE Transactions on Industry Applications

## Industrial Power Converter Committee

**Stefano Bifaretti**  
**IEEE IAS IPCC Paper Review Chair**

**October 11<sup>st</sup>, 2022**





# IPCC Associate Editors

Shafiq Odhano, UK - Transactions Paper Review co-Chair

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



In blue AEs appointed in 2022



# Submitting a manuscript to IPCC

- Paper first must be presented at an IAS-sponsored conference (within the last 12 months)
- Send an email to [Shafiq.Odhano@newcastle.ac.uk](mailto:Shafiq.Odhano@newcastle.ac.uk) and in copy to [stefano.bifaretti@uniroma2.it](mailto:stefano.bifaretti@uniroma2.it) with the request to submit a paper **ONLY if the paper is ready for submission**:
  - 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)

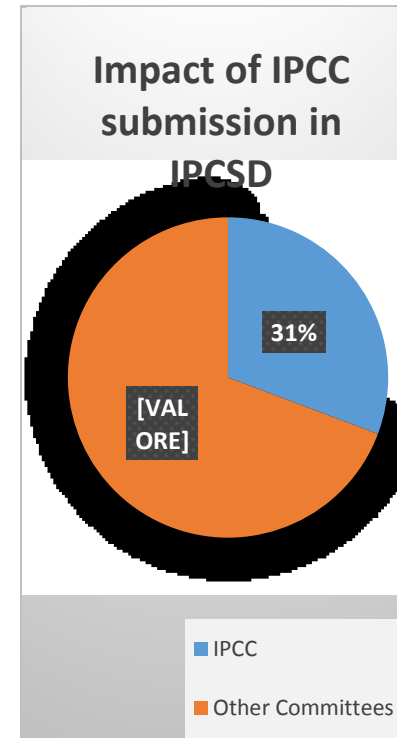
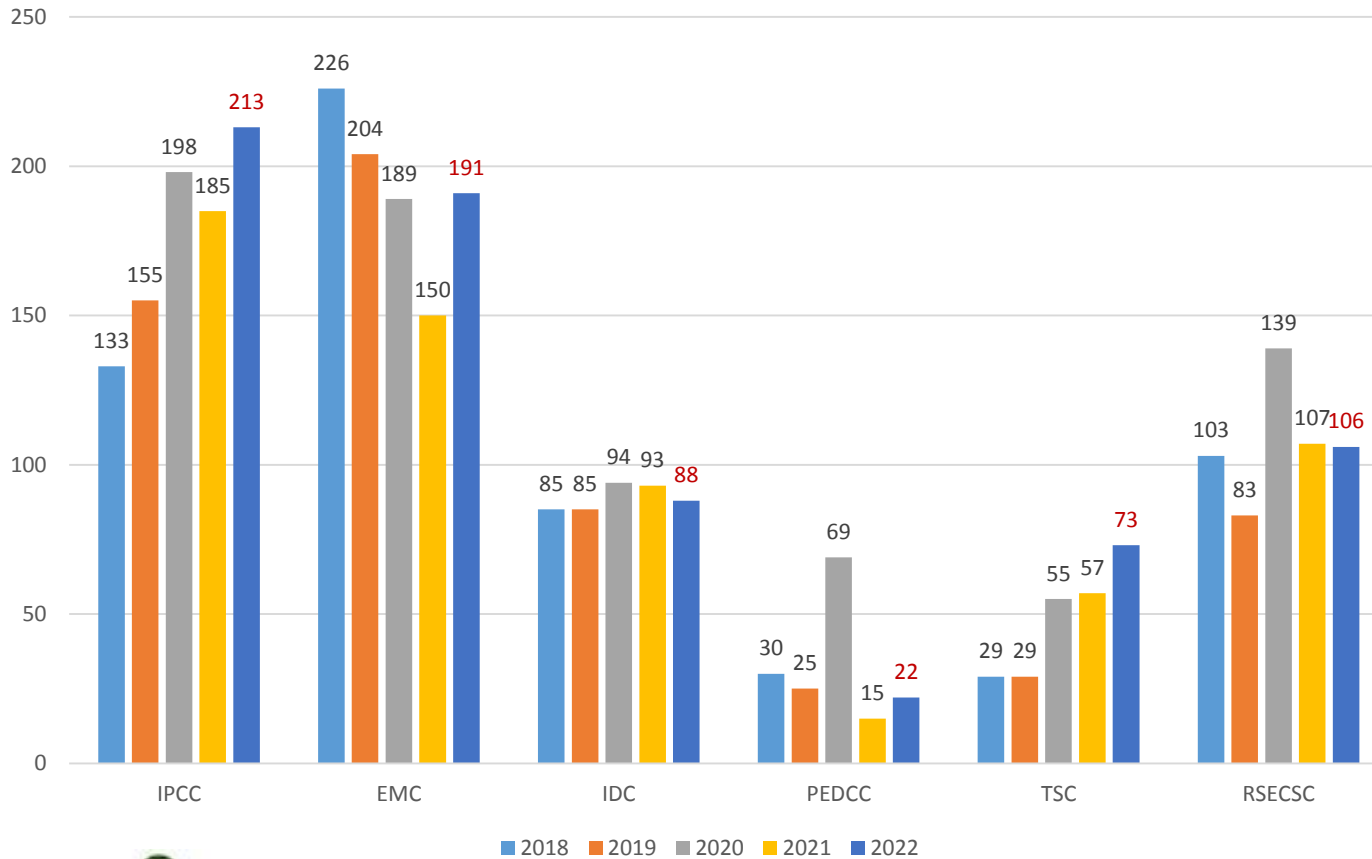
# Submitting a manuscript to IPCC

- 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.

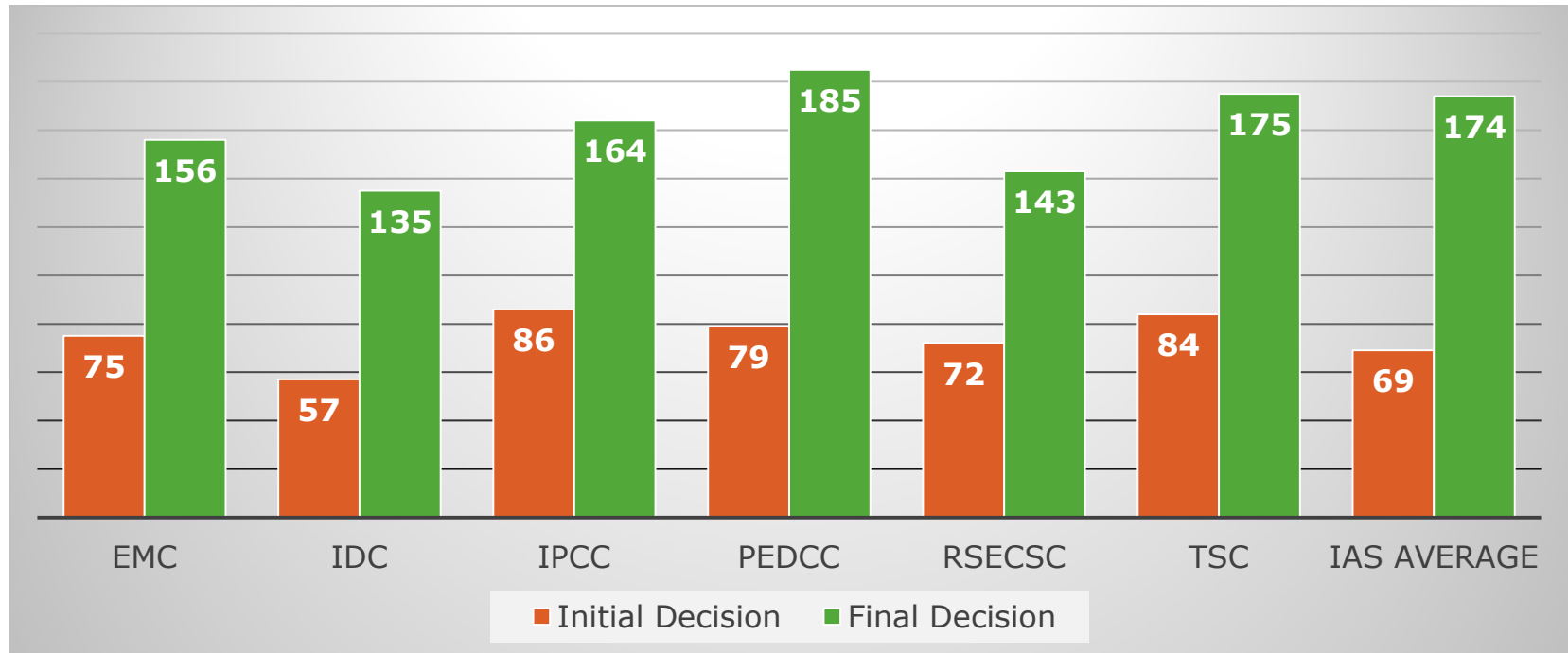
**Please cite TIA papers!**

# Total submissions by committee

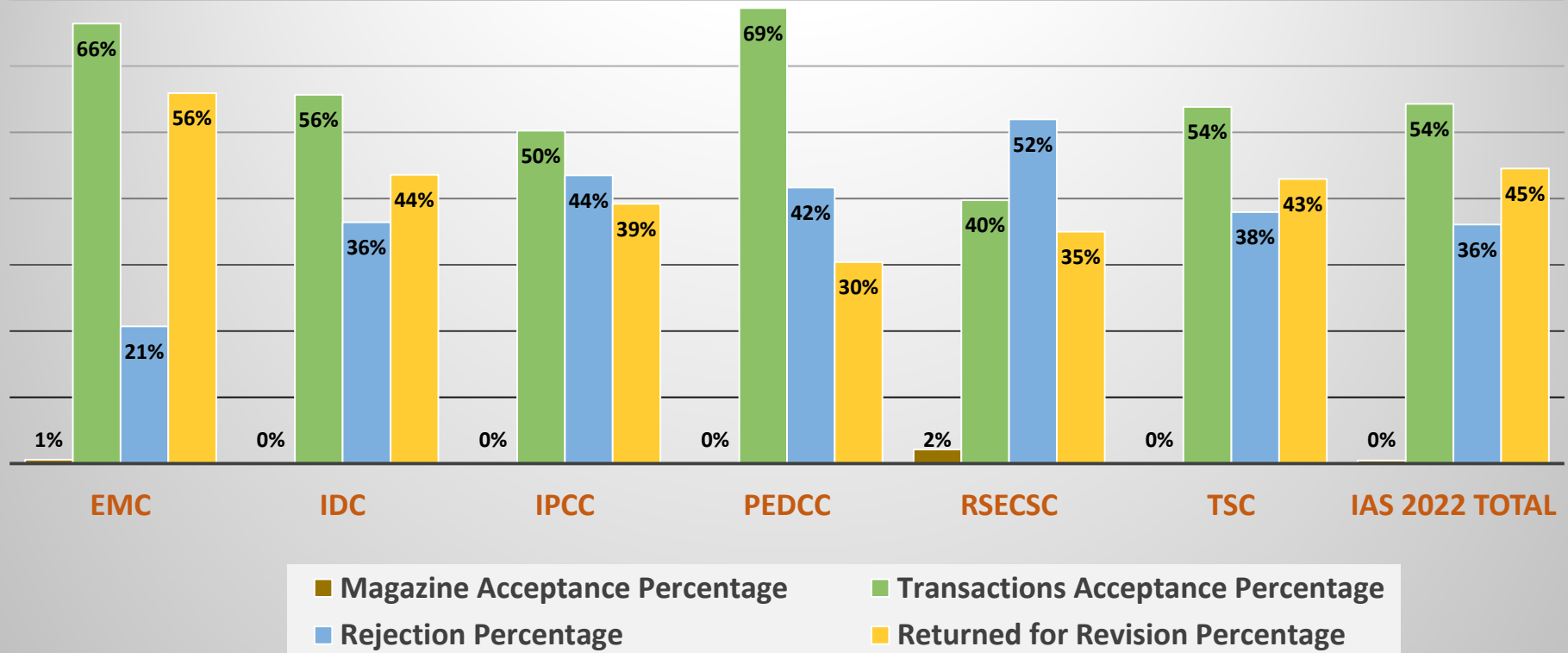
Submission Trend by IPCSD Committee



# Initial and Final Decision time for IPCSD Technical Committees (last 12 months)

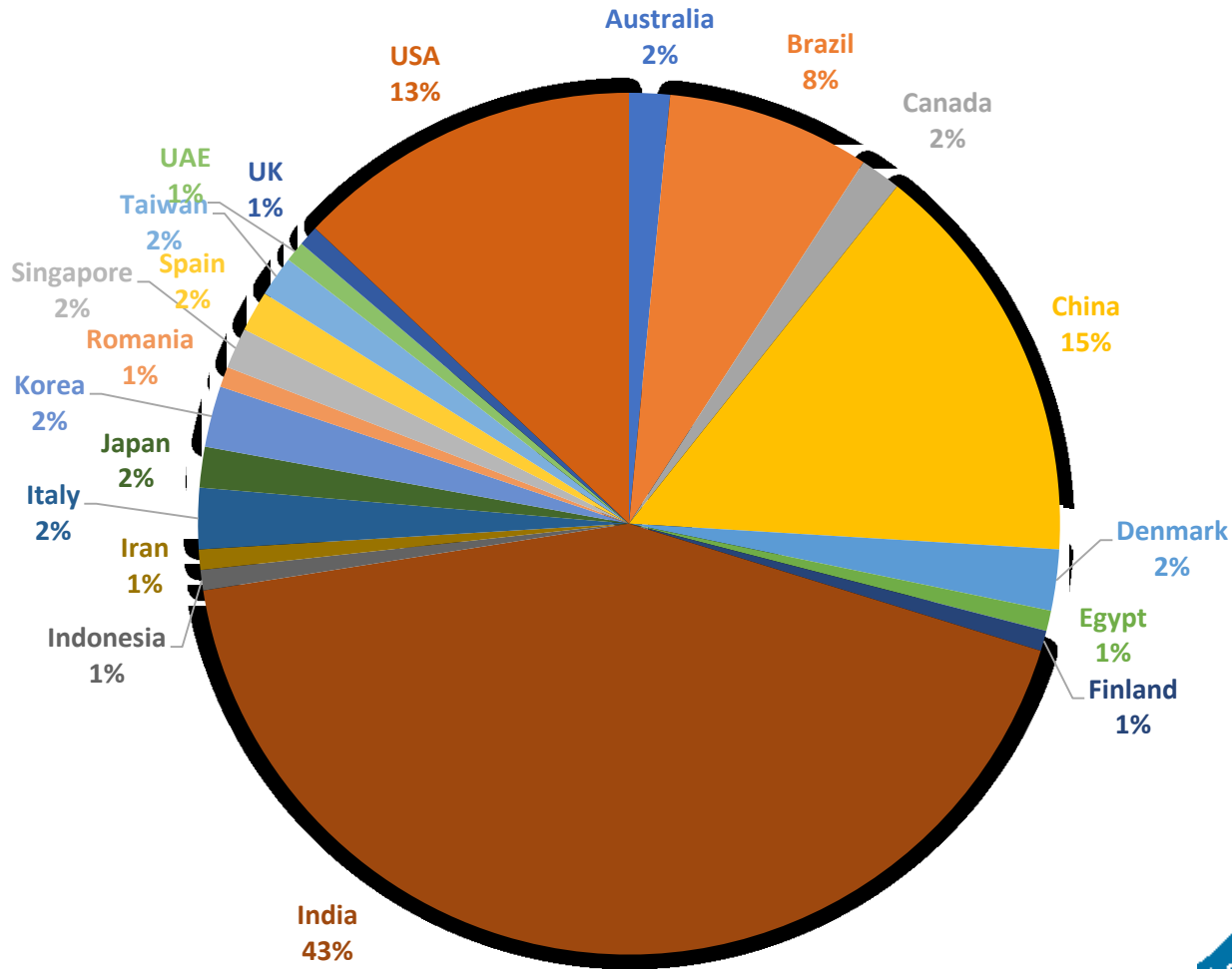


# Acceptance rate by committees in 2022



- Acceptance rate was 54% in 2021 and 50% in 2020. **Below average of IAS**

# Percentage of submissions by country 2022 (Jan-Sept)





# IEEE Open Journal of Industry Applications

IEEE Open Journal of  
**Industry Applications**

2020 Volume 1 IOJBK (ISSN 2644-1241)

An Open Access  
Publication of the  
IEEE Industry  
Applications Society



## Steering Committee

- Prof. Ayman El Refaie
  - (Publications Dept Chair, IEEE IAS)
- Prof. Pericle Zanchetta
  - (Editor in Chief)
- Prof. Luca Solero
  - (Deputy Editor in Chief)
- Prof. Fernando Briz
- Prof Jean Luc Schanen

**EiC: Prof. Pericle Zanchetta**

## Information

- ▶ Web Only Journal
- ▶ No Conference Requirement
- ▶ Scope covers the entire scope of IAS
- ▶ Papers are open access – everyone can read them without firewall
- ▶ Anyone can submit, without conference requirements
  - Like most other journals

## Open Access Fees (2023)

- ▶ If paper is accepted, authors must pay an Article Processing Charge (APC)
- ▶ Standard IEEE APC is \$1950 USD
- ▶ IEEE Members get a 5% discount
- ▶ IAS Members get a 20% discount: \$1560 per paper fee
- ▶ There are no page charges for overlength papers

<https://ias.ieee.org/publications/open-journal-of-industry-applications.html>

# Initiatives

**2021 Special issue IEEE Open Journal of Industry Applications  
Model Predictive Control of Power Electronic Systems in Industrial  
Applications**

**FREE PUBLICATION – NO APC**

**Guest Editor:** Petros Karamanacos, Tampere University, Finland,  
[p.karamanacos@ieee.org](mailto:p.karamanacos@ieee.org)

**Editor-in-Chief:** Pericle Zanchetta, University of Nottingham, UK,  
[pericle.zanchetta@nottingham.ac.uk](mailto:pericle.zanchetta@nottingham.ac.uk)

**9 Invited papers published in 2020 – 2021 – 2022**

**FREE PUBLICATION – NO APC**

**Call for special issues:**

**Please contact the editor in chief Prof. Pericle Zanchetta**

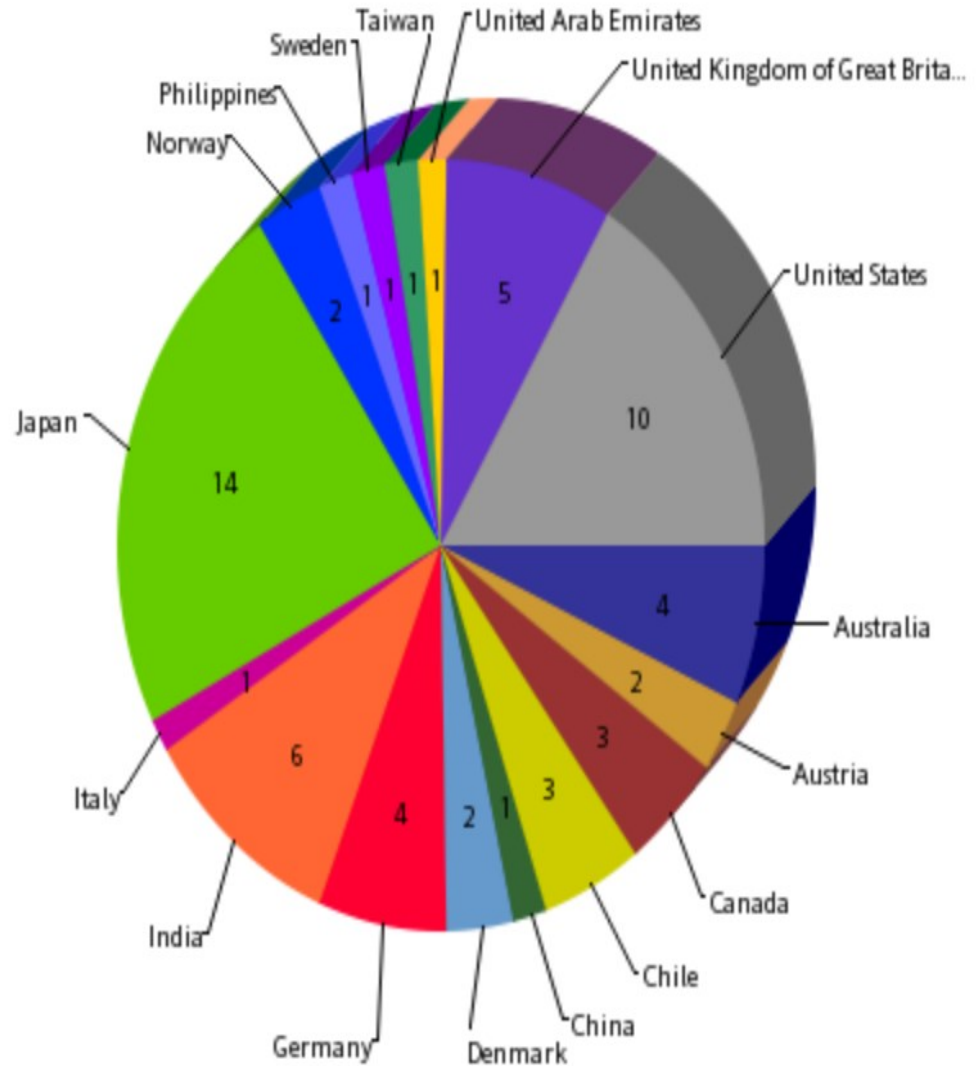
**([pericle.Zanchetta@nottingham.ac.uk](mailto:pericle.Zanchetta@nottingham.ac.uk))**

**with a special issue proposal, including title,  
description and guest editor(s) CV**

# Past year statistics #1

- ▶ Manuscript received  
Between 1/10/2021  
and 30/09/2022  
Selected by country

Total 61



# Past year statistics #2

**Total rate of acceptance 40%**

- ▶ Manuscript decided during the past year

Between 1/10/2021  
and 30/09/2022

Total 65

Accepted 28

Rejected 37

Rate of acceptance:  
**43.08%**

- Manuscript decided

Between 1/10/2019  
and 30/09/2020

Total 43

Accepted 15

Rejected 28

Rate of acceptance:  
**34.88%**

- Manuscript decided

Between 1/10/2020  
and 30/09/2021

Total 82

Accepted 33

Rejected 49

Rate of acceptance:  
**40.24%**

# Impact factor Projection (#1)

**Papers published in 2020 = 23**

**Papers published in 2021 = 31**

- ▶ Citations received by the 54 papers in the period Jan 1<sup>st</sup> to August 31<sup>st</sup> 2022 according to IEEE Xplore Analytics

135

**IF projection at 31<sup>st</sup> December 2022 = 3.75**

IEEE Xplore Analytics only considers citations in papers included in Xplore, so the previous number *might be* higher

## Impact factor Projection (#2)

- ▶ Total Citations received in 2021 according to IEEE Xplore Analytics

209

**IF projection considering to receive the same number of citations in 2022 = 3.87**

**Number of submissions in 2022 lower than 2021 (But in 2021 a special issue with free publication was open). However, we are on track to go over the target of 20 published papers.**

**Advertising is being taken care of with emails to a large audience and IAS magazine**



# Prize Paper Awards for ECCE 2022

## Industrial Power Converter Committee

**Stefano Bifaretti**  
**IEEE IAS IPCC Paper Review Chair**

**October 11, 2022**  
**Detroit, MI, USA**



# IPCC

## ECCE 2021 Prize Paper Award Subcommittee

### Coordinator of the Subcommittee

- **Stefano Bifaretti, *Transactions Review Chair***, University of Rome Tor Vergata, Italy

### Awards Subcommittee

- **Dong Cao** , University of Dayton, USA
- **Dong Jiang**, Huazhong University of Science and Technology (HUST), China
- **Manuel Arias Pérez de Azpeitia**, Universidad de Oviedo (Spain)
- **Vito Monopoli**, Politecnico di Bari, Italy
- **Xiaonan Lu**, Purdue University, USA

# IPCC

## ECCE 2021 Prize Paper Award Subcommittee

The **role of the coordinator** has been focused on the **selection of the Subcommittee members** and the collection of the evaluation scoresheets.

The coordinator did not participate to the evaluation.

The **Subcommittee members** have been selected from the list of the **TIA Associate Editors for IAS-IPCC, excluding those who:**

- are co-authors of the papers in competition;
- have the same affiliation of co-authors of the papers in competition.

**Only 5 out of 15 eligible AEs have accepted the invitation for the Award Subcommittee**

# IPCC

## ECCE 2021 Prize Paper Award Subcommittee

- The **papers** presented at **ECCE 2021** submitted to **IAS Transactions** before **December 31, 2021** and successively accepted were taken into consideration for the IPCC prize paper ballot.
- Only **6 papers** have been identified and included in the ballot



*The Industrial Power Converter Committee  
of the  
IEEE Industry Applications Society*

*takes pleasure in presenting the  
2022 First Prize Paper Award to*

*Juhwa Min*

*For the manuscript co-authored with Yongsug Suh*

*Entitled,*

*“Electrical Variable Capacitor of Reduced Switch Count and Voltage Stress for  
13.56MHz RF Plasma System”*

*Presented at the 2021 IEEE Energy Conversion Congress and Exposition (ECCE)*



October 2022

*Wei-Jen Lee*

*President*

*IEEE Industry Applications Society*

*Fernando Briz*

*Industrial Power Conversion Systems Depart-*

*IEEE Industry Applications Society*





*The Industrial Power Converter Committee  
of the  
IEEE Industry Applications Society*

*takes pleasure in presenting the*

*2022 Second Prize Paper Award to*

*Yu-chen Su*

*For the manuscript co-authored with Hsuan-ming Li, Po-lin Chen and Po-tai Cheng*

*Entitled,*

*“Operational flexibility of the modular multilevel converter under unbalanced grid conditions”  
Presented at the 2021 IEEE Energy Conversion Congress and Exposition (ECCE)*



October 2022

*Wei-Jen Lee*

*President*

*IEEE Industry Applications Society*

*Fernando Briz*

*Industrial Power Conversion Systems Depart-*

*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 to*

*Marco di Benedetto*

*For the manuscript co-authored with Alessandro Faro, Luca Bigarelli, Alessandro Lidozzi and Luca Solero*

*Entitled,*

*“Variable Frequency Repetitive-Resonant Combined Control for Grid-Tied  
and Intentional Islanding Operations”*

*Presented at the 2021 IEEE Energy Conversion Congress and Exposition (ECCE)*



October 2022

*Wei-Jen Lee*

*President*

*IEEE Industry Applications Society*

*Fernando Briz*

*Industrial Power Conversion Systems Depart-*

*IEEE Industry Applications Society*





# IPCC IA Transactions Awards

Next year IPCC will award 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> prize to Transactions on Industry Applications papers

Papers must be published in 2021 and submitted for review through the IPCC.

To reduce the workload of the Awards Subcommittee (95 published papers in 2022), the M-score provided by Manuscript Central can be used for pre-selection

- The top 10 papers will be included in the ballot
- AEs will be invited to be part of the Awards Subcommittee. **It is strongly recommended to accept the invitation**

# Next year IPCC ECCE Prizes

Until the current year the IPCC ECCE prize papers are selected among the ECCE papers submitted to TIA for review and then accepted for publication. Once IPCC IA Transactions awards have been approved, it makes sense to change also the ECCE prize process

## New Rules

- Any paper included in Track E and F, presented at ECCE the previous year is eligible
- To reduce the workload of the Awards Subcommittee, a preselection process is implemented
- **Papers are preselected on the basis of the digests' score**
- **Top 10 papers from Track E and Top 10 papers from Track F will be evaluated by the Awards Subcommittee**

# IAS Sponsored 2023 Conferences



# ICPE 2023 ECCE Asia 2023



## ICPE 2023-ECCE Asia

Green World with Power Electronics

11<sup>th</sup> International Conference on Power Electronics - ECCE Asia

May 22~25, 2023 ICC Jeju, Jeju, Korea

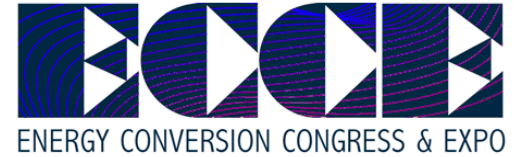
**Call for Contributions**  
**Digest Submission**  
**Deadline**  
**Oct. 21, 2022**



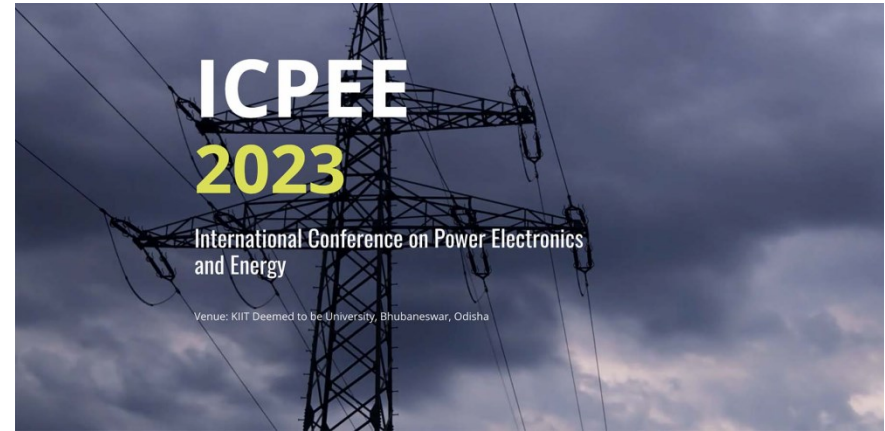




# IAS Sponsored Conferences 2023 (Asia)



2nd International Conference on Power  
Electronics and Energy (ICPEE)  
Bhubaneswar, India  
Jan. 3-5, 2023



11th International Conference on Power  
Electronics –ECCE Asia  
Jeju, Korea  
MAY. 22-25, 2023

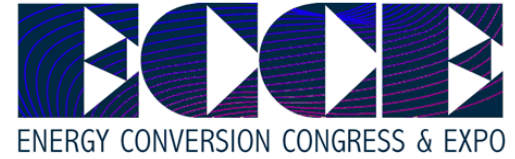


IEEE International Conference on Energy  
Technologies for Future Grids  
Wollongong, Australia  
DEC 3-6, 2023  
Paper Submission Deadline: APR 1, 2023





# IAS Sponsored Conferences 2023 (Europe)



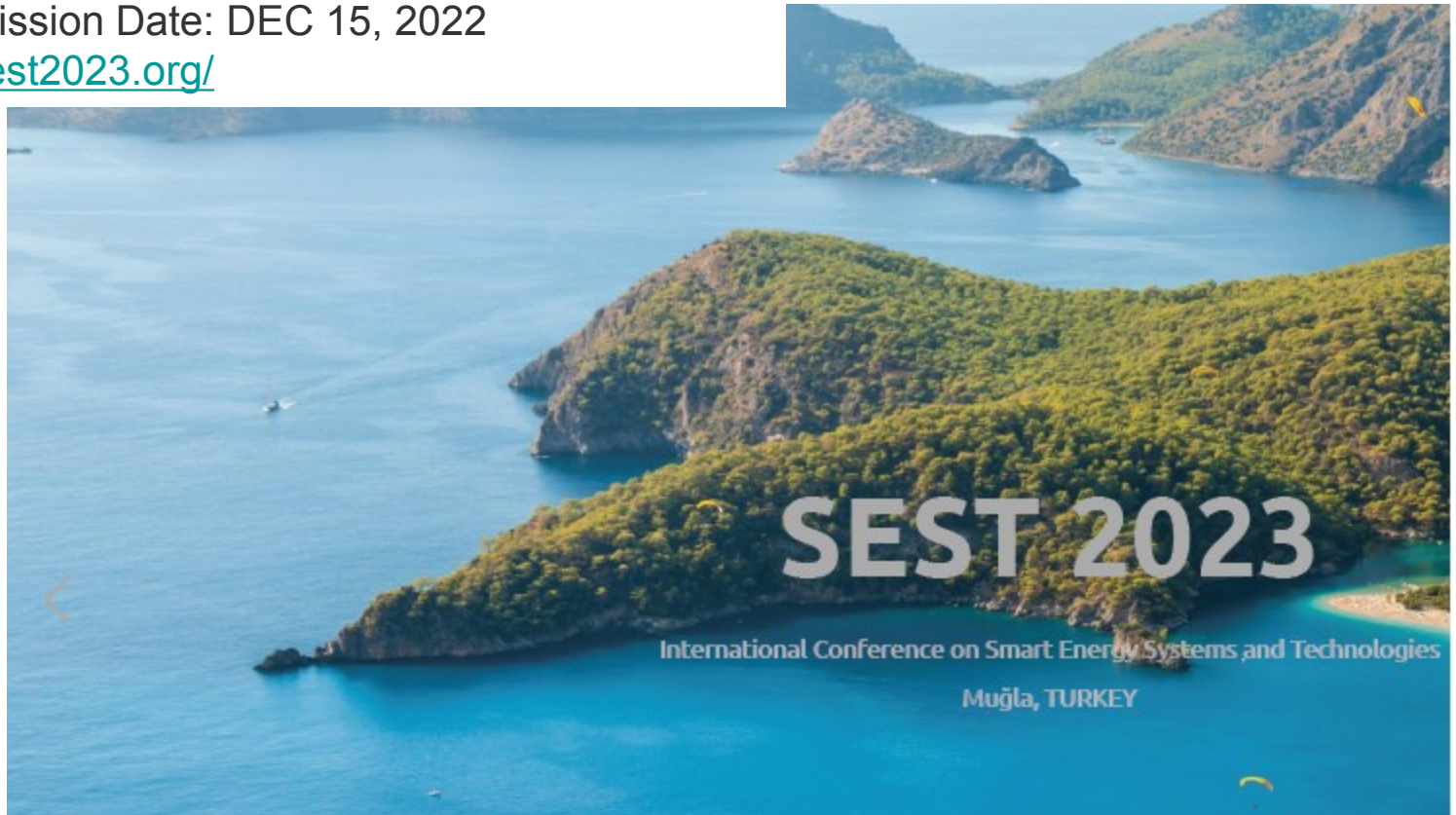
2023 International Conference on Smart Energy  
Systems and Technologies (SEST)

Mugla, Turkey

SEP 4-6, 2023

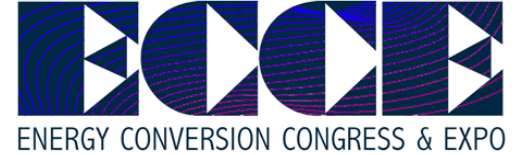
Digest Submission Date: DEC 15, 2022

<http://www.sest2023.org/>





# IAS Sponsored Conferences 2023 (USA)



2023 IEEE Texas Power and Energy  
Conference (TPEC), [Link](#)  
College Station, TX USA  
Dates: FEB 13-14, 2023  
Full Paper Submission Date: NOV 13, 2022



2023 IEEE Power and Energy  
Conference at Illinois (PECI), [Link](#)  
Champaign, IL USA  
Dates: MAR 2-3, 2023  
Digest Submission Deadline: NOV 21, 2022



2023 IEEE Transportation Electrification  
Conference & Expo (ITEC)  
Detroit, MI USA  
Dates: Jun 21-23, 2023  
Abstract Submission Deadline: DEC 1, 2022  
<https://itec-conf.com/>





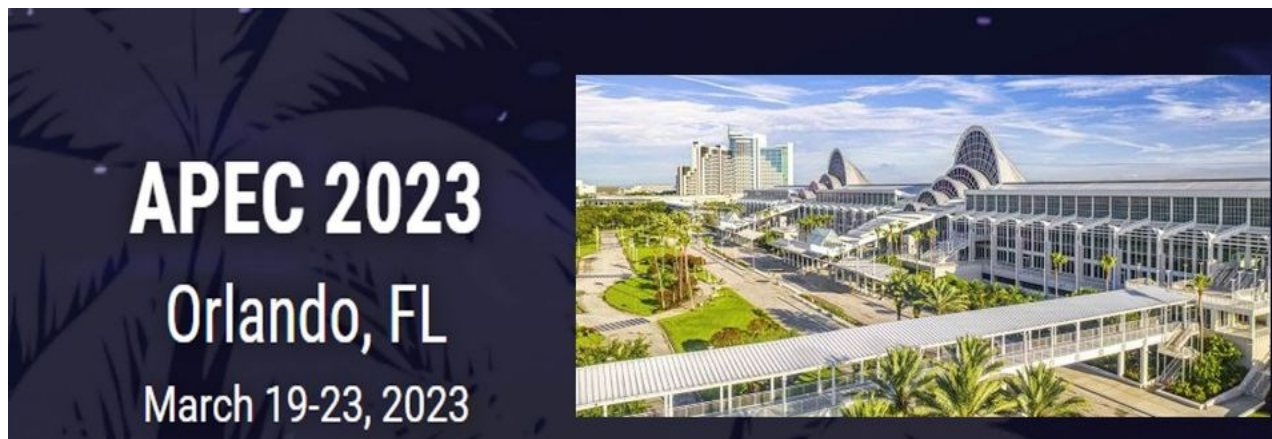


# Flagship Conference APEC 2023 (USA)



## IEEE's 38th annual APEC will highlight the latest news in power electronics technology

- Orlando, Florida, from March 19-23, 2023
- The conference offers in-depth professional education seminars, plenary sessions, technical sessions, and unique industry sessions and exhibitor seminars
- The conference hosts a three-day exposition featuring hundreds of companies serving the power electronics industry
- **Detailed updates about the conference at [www.apec-conf.org](http://www.apec-conf.org)**





# Flagship Conference APEC 2023 (USA)



## APEC 2023 Track Chairs from IPCC

AC-DC Converters: **Arijit Banerjee**, *University of Illinois at UrbanaChampaign*  
**Mehdi Narimani**, *McMaster University*

Motor Drives and Inverters: **Dinesh Kumar**, *Danfoss Drive A/S*

Devices and Components: **Zheyu Zhang**, *Clemson University*

Power Electronics Integration and Manufacturing: **Liming Liu**, *ABB Inc.*

Control: **Xiaonan Lu**, *Purdue University*

**Petar Grbovic**, *University of Innsbruck*

Transportation Power Electronics: **Dong Cao**, *University of Dayton*

Power Electronics Applications: **Manuel Arias Perez de Azpeitia**, *University of Oviedo*



IEEE ENERGY CONVERSION CONGRESS & EXPO

Nashville, TN | OCT.29-Nov.2

## General Chair

Brad Lehman

b.lehman@northeastern.edu

## General Co-chairs

Joseph Ojo

## General Co-chair

Jean-Luc Schanen

