

Please register your attendance and interest in volunteering for ECCE 2023

Primary: EMC website



OR

Backup: MS Form



IEEE IAS

Electric Machines Committee

2022 Committee Meeting
Detroit Michigan

Room 141 of the Huntington Place Detroit
Tuesday the 11th of October 4:30 pm to 6:00 pm.

Chair: Greg Heins



Agenda

1. Memorial
2. Attendance
3. Review and Approval of 2021 Committee Meeting Minutes
4. Awards
 - a. Member recognitions
 - b. Awards outside of IAS for EMC members
5. Executive Reports
 - a. Chair : Transactions Papers Status Review
 - b. Vice-Chair : ECCE2022 Technical Program
6. Subcommittee Reports:
 - a. Prize Paper Awards Presentation
 - b. Standards
7. ECCE Session Chair Reports (2022 ECCE sessions completed as of meeting time)
8. New Business:
 - a. 2023 Officers – EMC Past Chair Nominates Slate of Officers
 - b. Publications Update and IAS Sponsored Conferences
 - c. ECCE 2022 - Update
 - d. ECCE 2023 – Preparation for ECCE 2023
 - e. Other Upcoming Conferences
9. Other Business
10. Adjournment



Memorial - Professor Donald Novotny

Prof. Jahns

<https://drive.google.com/file/d/1gq0f6jnQfQtGY8aOwqZsFqXQCoPKzBeq/view?usp=sharing>



Past IAS EMC Chairs

- 1985 J. Herbert Johnson (A.O. Smith) [Single phase and fractional horsepower machines subcommittee of the IDC]
- 1986-87 Don Novotny (UW-Madison)
- 1988-89 M. Azizur Rahman (MUN Newfoundland)
- 1990-91 Jerry Lloyd (Emerson)
- 1992-93 Eike Richter (GE)
- 1994-95 Tom Nondhal (Rockwell)
- 1996-97 Nady Boules (GM)
- 1998-99 Balu Patel (GM)
- 2000-01 Longya Xu (Ohio State)
- 2002-03 Bruno Lequesne (Delphi)
- 2004-05 Hamid Toliyat (Texas A&M)
- 2006-07 Pete Wung (Emerson)
- 2008-09 Iqbal Husain (University of Akron)
- 2010-11 Avoki Omekanda (GM)
- 2012-13 Aldo Boglietti (Politecnico di Torino)
- 2014-15 Mircea Popescu (Motor Design)
- 2016-17 Andy Knight (University of Calgary)
- 2018-19 Emmanuel Agamloh (Advanced Energy Corp.)
- 2020-21 Akira Chiba (Tokyo Institute of Technology)



New member sign-up

NEW MEMBER SIGN-UP:

1. All attendees registered for this meeting will automatically become EMC members
2. Alternatively, new members can register at list <https://site.ieee.org/ias-emc/member-subscriptions/>

Note: Formally, you must be an IAS member to vote on IAS committee business.



New members

- To date, the roster on IEEE LISTSERV has 391 email addresses.
- A total of 9 (6 female) new members have joined us since the last EMC meeting.
- 5 were added from the ECCE 2022 reviewer list.
- 2 were recruited via Women In Engineering (WIE).
- 2 joined directly on IEEE LISTSERV.
- Can any new members to EMC, please raise their hands to be welcomed?



Motion is invited to Accept 2021 Minutes for the Record !

- Minutes were distributed electronically. Corrections were requested and required corrections were made.
- Minutes were recirculated again on 26th September 2022.
- Approved minutes will be available at IAS – EMC website:
<https://site.ieee.org/ias-emc/meeting-minutes/>



Awards



Member recognitions

IAS Gerald Kliman Award – Prof. Ayman EL-Refaie

IEEE Medal in Power Engineering - Prof. Thomas Jahns

Nikola Tesla Award – Prof. Peter Sauer



IEEE Fellows - EMC members

Prof. Gianmario Pellegrino, Politecnico di Torino, Italy

for contributions to Synchronous Reluctance machines identification and control

Prof. Bulent Sarlioglu, UW-Madison, WI, USA

for applications of electrical drives in the aerospace industry

<https://www.ieee.org/content/dam/ieee-org/ieee/web/org/about/fellows/2022-ieee-fellows-class.pdf>



Awards in EM outside of IAS

Winners of 8th Nagamori Awards in EMC members

Gianmario Pellegrino

Professor, Department of Energy "Galileo Ferraris", Politecnico di Torino

- Fields of **motors**, actuators and, etc.
- mid-career researchers or development engineers no more than 30 years after the Bachelor's degree.



Transactions Paper Review Status



2022 Associate Editors

Giulio De Donato
Yao Duan
Rukmi Dutta
Min-Fu Hsieh
Takashi Kosaka
Parsa Leila
Antonio J. Marques Cardoso
Sanjib K. Panda
Gianmario Pellegrino
Mircea Popescu
Ronghai Qu
Eric Severson
Adam Skorek
Narges Taran
Silvio Vaschetto
Rajeev Vyas
Katsumi Yamazaki
Pinjia Zhang
Alireza Fatemi
Konstantinos Gyftakis
Fan Wu

**Thank you to all
EMC AEs as well
as our TIA Paper
Reviewers !**



New AE appointment

To replace some of our outgoing AEs and to add expertise in “high volume” areas we have appointed 4 new AEs.

The selection process was based on:

- a. Ongoing work as a TC for EMC ECCE
- b. Performance as a reviewer for IAS EMC
- c. Expertise/ Publication alignment with 2022 IAS EMC needs

New EMC AEs are:

Alireza Fatemi, Konstantinos Gyftakis, Narges Taran, Fan Wu



Overview of IAS Publications

IAS Owned

- ▶ Transactions on Industry Applications
- ▶ Industry Applications Magazine
- ▶ Open Journal of Industry Applications



First Decision Time By Committee IPCSD (All Time and Last 12 Months)

Manuscript Type	First Decision (All Time)	First Decision (12 Months)
Electric Machines Committee	71	74
Industrial Drives Committee	65	57
Industrial Power Converter Committee	81	85
Power Electronic Devices and Components Committee	106	79
Renewable and Sustainable Energy Conversion Systems Committee	83	72
Transportation Systems Committee	84	82



Final Decision Time By Committee IPCSD (All Time and Last 12 Months)

Manuscript Type	Final Decision (All Time)	Final Decision (12 Months)
Electric Machines Committee	138	157
Industrial Drives Committee	124	137
Industrial Power Converter Committee	140	166
Power Electronic Devices and Components Committee	192	172
Renewable and Sustainable Energy Conversion Systems Committee	152	144
Transportation Systems Committee	162	176

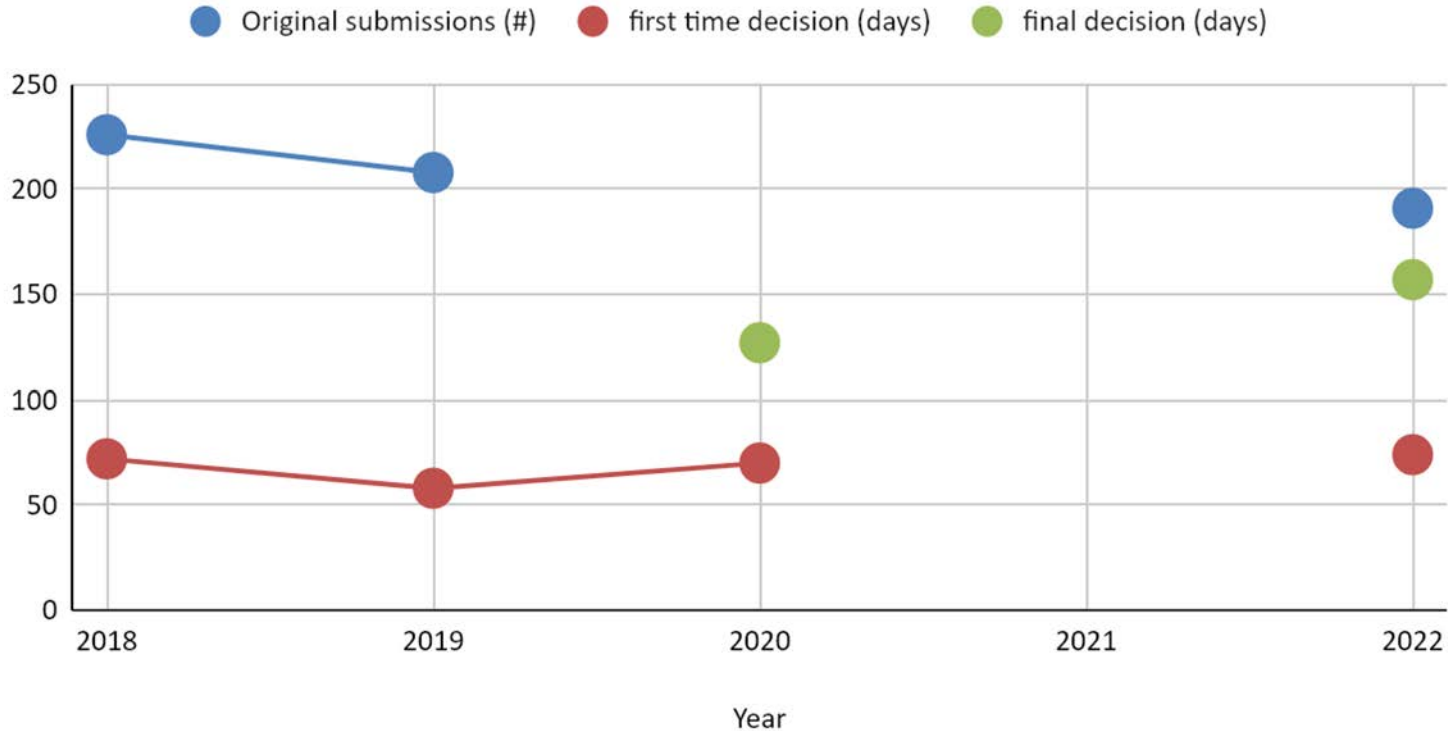


Acceptance By Committee IPCSD (Last 12 Months)

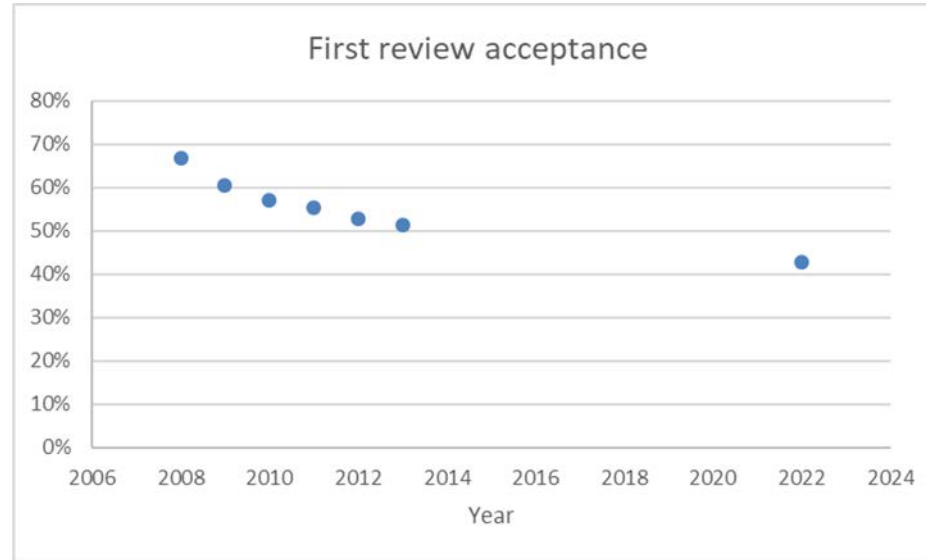
	Magazine Acceptance Percentage	Transactions Acceptance Percentage	Rejection Percentage	Returned for Revision Percentage
IAS Publications 2022 Total				
Electric Machines Committee	0.62%	28.88%	14.60%	55.90%
Industrial Drives Committee	0.00%	31.40%	25.00%	43.60%
Industrial Power Converter Committee	0.00%	30.55%	30.23%	39.23%
Power Electronic Devices and Components Committee	0.00%	47.83%	21.74%	30.43%
Renewable and Sustainable Energy Conversion Systems Committee	2.14%	25.00%	37.86%	35.00%
Transportation Systems Committee	0.00%	30.70%	26.32%	42.98%
IAS Publications 2022 Total	2.96%	31.09%	23.57%	42.38%



EMC historical trends



Reviewer challenges



- Our community relies on high quality reviewers.
- Please accept and complete reviews as much as possible.
- If you do receive a request, please respond ASAP even if you choose to decline.



IAS Transaction paper Awards selection process

Prize Paper Process

- ▶ Each Technical Committee and Special Issue given right to nominate at least one paper
- ▶ Additional nomination for every 10% of papers published
 - e.g. 2019:
 - 719 papers published in Transactions on Industry Applications
 - EMC, IPCC, IACC all published more than 72 papers, so were allowed to nominate 2 papers
- ▶ Potentially 23 nominations for TIA, 15 for IAM
- ▶ This year, many delays: 14 nominations for TIA, 8 for IAM

- ▶ Nominations reviewed by ad hoc committee including current / past TCPRC



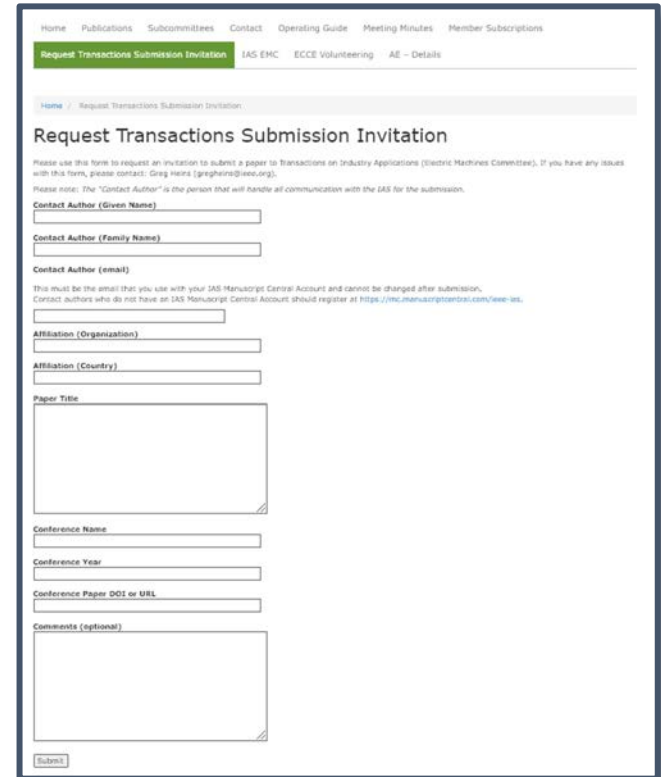
Process for Prospective Authors

- To submit papers presented at an IAS sponsored conference for IAS Transactions use:

<https://site.ieee.org/ias-emc/transactions-form/>

- On manuscript submission, explain the differences between the conference and Transactions versions in the **cover letter**.
- For more information visit EMC website:

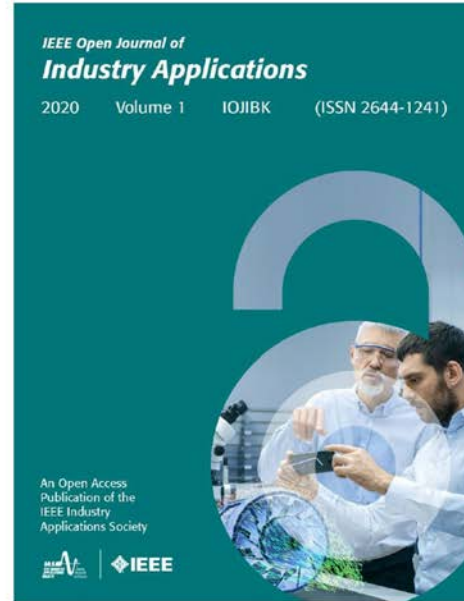
<http://sites.ieee.org/ias-emc/publications/>



The screenshot shows a web browser window displaying the 'Request Transactions Submission Invitation' form. The page has a navigation bar at the top with links for Home, Publications, Subcommittees, Contact, Operating Guide, Meeting Minutes, and Member Subscriptions. Below the navigation bar, there is a green header with the text 'Request Transactions Submission Invitation' and 'IAS EMC ECCE Volunteering AE - Details'. The main content area is titled 'Request Transactions Submission Invitation' and includes instructions: 'Please use this form to request an invitation to submit a paper to Transactions on Industry Applications (Electric Machines Committee), if you have any issues with this form, please contact: Greg Reins (greins@ieee.org). Please note: The "Contact Author" is the person that will handle all communication with the IAS for the submission.' The form contains several input fields: 'Contact Author (Given Name)', 'Contact Author (Family Name)', 'Contact Author (email)', 'Affiliation (Organization)', 'Affiliation (Country)', 'Paper Title', 'Conference Name', 'Conference Year', and 'Conference Paper DOI or URL'. There is also a 'Comments (optional)' text area and a 'Submit' button at the bottom.



Open Access Journal of Industry Applications



EiC: Prof. Pericle Zanchetta

Editorial Meeting

24

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



Open Access Journal of Industry Applications

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



Open Access Journal of Industry Applications

Impact factor projection at 31st December 2022 = 3.75 to 3.87

Proposals for Special Issues should be sent to:

Pericle Zanchetta (pericle.zanchetta@nottingham.ac.uk)

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



JESTPE Special Issues

- JESTPE is IAS-PELS joint publication
- IPCSD Technical Committees are required to be more active in Special Issue proposals

IPCSD Proposal

- Let's try to have every 2 years 1 proposal coming from each TC
- During the year the IPCSD Vice-Chair sends emails to TC Chairs and TC Publication Chairs to invite them to submit proposals, which can be also joint proposals from 2 or more TCs
- TCs officers lead the process of preparing the proposals



JESTPE Special Issues

When you prepare the proposal:

- ❖ Select a topic and a title capable of attracting submission of about 50 papers. It must be different from the other Special Issues (<https://www.ieee-pels.org/publications/jestpe>, <https://ias.ieee.org/publications/joint-publications/jestpe.html>).
- ❖ 2-3 Guest Editors well recognized as experts and having a corresponding history of working in the field. Citations, h-factor, are also things to consider.
- ❖ 8-10 Associate Editors with history that shows they have expertise in the area. AEs should also have a good review or editorial history. AEs should be very motivated people.
- ❖ Look at recent CfP of JESTPE Special Issues in order to prepare the proposal.
- ❖ Luca Zarri, IAS representative at JESTPE Steering Committee, and Luca Solero, IAS IPCSD vicechair, can help in preparing the proposals, as well we can give feedback on proposals before they are submitted to the editorial board.



Current Special Issue Proposals

- Special Issue proposal on “Machine Learning for Modeling, Designing and Controlling Electric Machines and Drives”, in progress, coming from EMC. (Gerd Bramerdorfer)
- Special Issue proposal on “Situation Aware Power Electronics Converters: Modeling, Design, and Industry Practice”, very first draft version, coming from IPCC.



ECCE 2022 Vice-Chairs' Report

Prof. Rukmi Dutta



2022 ECCE EMC Topic Chairs

Sub Track	First Name	Last Name
G01	Rajesh	Deodhar
G01	Peng	Han
G02	Silvio	Vaschetto
G02	Yao	Duan
G03	Hao	Ding
G03	Nicola	Bianchi
G03	Narges	Taran
G04	Zhongze	Wu
G04	Takashi	Kato
G05	Udochukwu	Akuru
G05	Roy	McCann
G05	Lavanya	Vadamodala
G06	Jian	Li
G07	Bryan	Ruddy
G07	Renato	Lyra
G08	Jose	Antonino-Daviu
G08	David	Reigosa
G08	Konstantinos	Gyftakis

Sub Track	First Name	Last Name
G09	Le	Chang
G09	Adam	Skorek
G09	Alberto	Bellini
G10	Fan	Wu
G10	Nick	Simpson
G10	Vandana	Rallabandi
G11	Prerit	Pramod
G11	Luigi	Alberti
G12	Matthew	Gardner
G12	Jonathan	Bird
G13	Wolfgang	Gruber
G13	Eric	Severson
G13	Xuan (Melody)	Yi
G14	Gerd	Bramerdorfer
G14	Subrata	Saha
G14	Alireza	Fatemi
G15	Yi	Liu
G15	Athanasios	Karlis



Thank you all Topic Chairs! and reviewers.

- ECCE Group G Vice Chairs are EMC secretary (Giulio De Donato) and Vice Chair (Rukmi Dutta) and Antonio J. Marques Cardoso



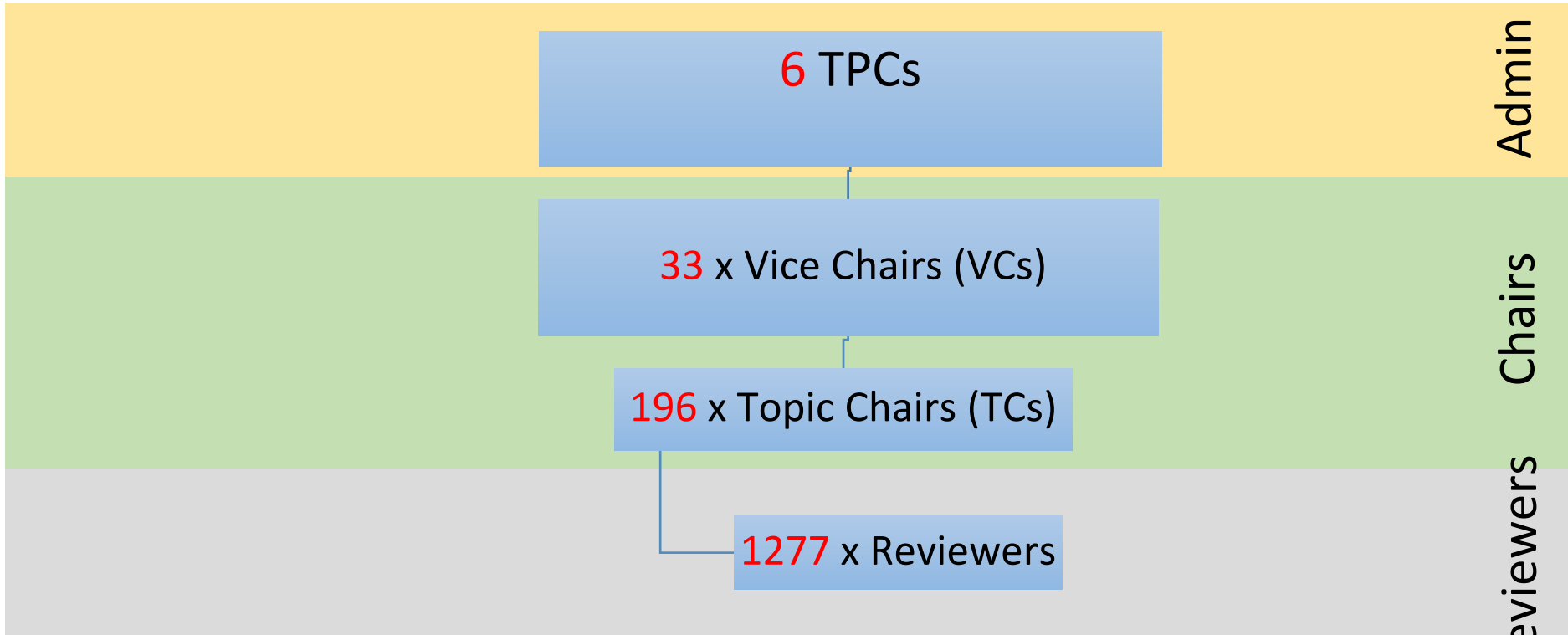
Review Process

- Topic Chairs were selected from volunteers who expressed their interest via an online survey sent to EMC members by email. **In the survey, they also selected their preference of G01-G15.**
- Each reviewer can modify their areas in the ECCE paper review web system. Based on their area, Topic Chairs selected these reviewers. Five reviewers for one digest.
- All papers of Track G received at least 3 review evaluations. We attempted to achieve **5 evaluations for majority of the papers.**
- Some reviewers did not provide evaluations even after deadline. Their review assignments were cancelled, and Topic Chairs and Vice Chairs worked on review evaluations.
- If one can not review digests, please let us know in advance.



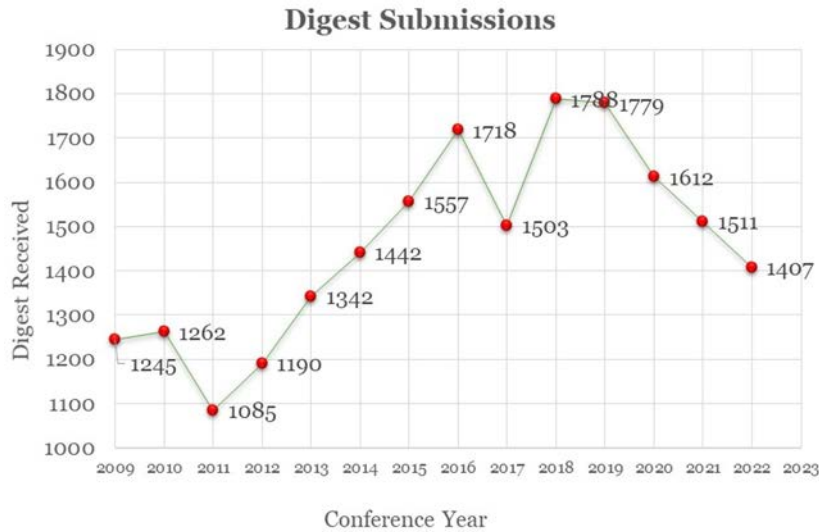
2022 ECCE Paper Review Management

ECCE level



ECCE Digest Submission Data

ECCE level



Edition		2 reviews	3 reviews	4 reviews	5 review	6 reviews	Total	Average reviews/paper
2017	Papers	121	252	509	621		1503	4.1
	n. of review	242	756	2036	3105		6139	
2018	Papers		79	406	1268		1753	4.7
	n. of review		237	1624	6340		8201	
2019	Papers	8	226	572	943		1749	4.4
	n. of review	16	678	2288	4715		7697	
2020	Papers		400	450	750		1600	4.2
	n. of review		1200	1800	3750		6750	
2021	Papers		37	487	983	3	1510	4.6
	n. of review		111	1948	4915	18	6992	
2022	Papers		114	498	782		1394	4.5
	n. of review		342	1992	3910		6244	



Electric Machine Statistics (Track G)

EMC level

Year	Digest submitted	Digest accepted	Acceptance rate	Format
2022	218	155 (143*)	71%(69%*)	In-person
2021	218	141	65%	Online
2020	234	173	74%	Online
2019	249	183	71%	In-person
2018	252	189	75%	In-person
2017	186	140	75%	In-person
2016	245	151	62%	In-person
2015	203	141	69%	In-person
2014	201	137	68%	In-person

- Final submissions and acceptance rate - some papers were withdrawn after acceptance.
- Strong submission despite COVID challenges.
- In even years, digest submission is higher because IEMDC is in odd years.



Year	Oral sessions	Poster sessions	Remote session (New)
2022	18	6	4
2021	25 (online)		
2020	21 (online)		
2019	21		
2018	23		
2017	20		



2022 EMC Prize Paper Awards

(for Papers presented at ECCE 2021)



Selection Process

- 6 top papers with highest ranking from digest review process selected for full review by panel
- 6-member committee of distinguished reviewers
 - Good mix of industry (3) and academia (3)
 - Previous committee chairs, paper award winners, subject matter experts
 - **Prof. Akira Chiba**
 - **Prof. Aldo Boglietti**
 - **Dr. Bruno Lequesne**
 - **Dr. Mircea Popescu**
 - **Prof. Nicola Bianchi**
 - **Dr. Haran Karmaker**



Third Prize

Authors: Nick Simpson, Jakob Jung, Axel Helm and Phil H Mellor

Paper Title: *Additive Manufacturing of a Conformal Hybrid-Strand Concentrated Winding Topology for Minimal AC Loss in Electrical Machines*

Affiliation: Electrical Energy Management Group, University of Bristol, Bristol, UK and Additive Drives GmbH, Halsbrucke, Germany



Second Prize

Authors: Anthony Coppola and Alireza Fatemi

Paper Title: *Rotor Reinforcement in High-Speed Motors by Polymer Composites*

Affiliation: Research and Development, General Motors, Warren, MI



First Prize

Authors: Satoru Simizu, Kevin Byerly, Kyle Schneider, Heonyoung Kim, Mark Nations, Sneha Narasimhan, Richard Beddingfield, Subhashish Bhattacharya and Michael McHenry.

Paper Title: *Flux Switching Permanent Magnet Motor with Metal Amorphous Nanocomposite Soft Magnetic Material and Rare Earth Free Permanent Magnets.*

Affiliation: Carnegie Mellon University, Pittsburgh, PA, FREEDM Systems Center, North Carolina State University



Awards - call for nominations

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

IAS members <35 years old

We can see 2022 recipients in IAS web site

<https://ias.ieee.org/awards.html>, <https://ias.ieee.org/chapters-membership/distinguished-lecturer-program.html>,
<https://www.ieee.org/membership/fellows/steps.html>



Standards subcommittee report

Standard sub committee Chair Dr. Haran Karmaker



IAS EMC Standards

[Project #1: IEEE P-11](#)

“IEEE Std. 11: IEEE Standard for Rotating Electric Machinery for Rail and Road Vehicles”

- WG Chair: Tim Burress
- Current Version: [2006](#)
- PAR Approved: [March 2015, Extended to December 2023](#)
- On-going revision since [June 2015](#)
- Seeking a new WG Chair
- Contact: burreستا@ornl.gov

[Project #2: IEEE P-1812](#)

“IEEE Std. 1812: IEEE Guide for Testing Permanent Magnet Machines”

- WG Chair: Yao Duan
- Trial-use guide published: [2014](#)
- On-going revision since [August 2016](#)
- Completed 1st Ballot, approval rate reached, working on addressing comments
- PAR extended until 2023



IAS EMC Standards

[Project #3: IEEE P-1415](#)

“IEEE Std. 1415: Induction Machinery Maintenance Testing and Failure Analysis”

- WG Chair: Pinjia Zhang
- Current Version: [2006](#)
- PAR Approved: [2019](#)
- On-going revision since [Oct. 2019](#)

[Project #4: IEEE P-620](#)

“IEEE Std. 1812: Guide for the Presentation of Thermal Limit Curves for Squirrel Cage Induction Machines”

- WG Chair: Yao Duan
- Current revision: [1996 \(reconfirmed 2008\)](#)
- PAR submitted August, 2019
- Final approval obtained in 02/2022 and published in 06/2022



IAS EMC Standards

[Project #5: IEEE P-252](#)

"IEEE Standard Test Procedure for Polyphase Induction Motors Having Liquid in the Magnetic Gap"

- PAR submitted August 31, 2018
- Completed 1st Ballot, approval rate reached, working on addressing comment
- Interested Members contact:
Yao Duan yao.duan@ieee.org

[Project #6: IEEE P-114](#)

"IEEE Standard Test Procedure for Single-Phase Induction Motors"

- PAR approved September 26, 2021
- WG Chair: Maher Al-Badri
- First WG meeting held on October 26, 2021
- On-going monthly WG meetings
- Interested Members contact:
Maher Al-Badri albadri@ieee.org



ECCE 2022 update

General Chair - Prof. Emmanuel Agamloh

<https://docs.google.com/presentation/d/1JA7D-c9GA0INrGZjO649SVQuh6JTyTb/edit?usp=sharing&oid=116830103376932737544&rtpof=true&sd=true>



ECCE 2022: Session Reports

Feedback from session chairs on EMC sessions completed as of time of this meeting



EMC Sessions and Chairs of ECCE 2022

Thank you for serving as Chair! (1/2)

Completed Sessions:

Session	Session Title	Session Chairs
S01	Axial Flux Machines I	Giulio De Donato and Narges Taran
S03	Induction Machines	Silvio Vaschetto
S14	Electric Machines for Transportation	Alireza Fatemi
S16	Diagnostics, Noise and Vibration in Electric Machines I	J. Antonino-Daviu and K. Gyftakis
S31	Permanent Magnet Machines	David Reigosa and Giacomo Scelba
S33	Materials, Losses, Thermal and Manufacturing Issues	Rafal Wrobel
S34	Thermal Issues in Electric Machines	Fabio Giulii Capponi and Rafal Wrobel
S36	Actuators and Non-Conventional Machines	Eric Severson and Fausto Stella
S52	Switched Reluctance and Flux Switching Machines I	Roy McCann and Luigi Alberti
S53	Materials, Losses and Thermal Issues	Navid Zargari
S61	Diagnostics, Noise and Vibration in Electric Machines	Luca Zarri
S62	Modelling and Analysis of Electric Machines in Specialized Applications	Silvio Vaschetto and Moinul Haque



EMC Sessions and Chairs of ECCE 2022

Thank you for serving as Chair! (2/2)

Remaining Sessions:

Session	Session Title	Session Chairs
S64	Prof. Donald W. Novotny Memorial Session I	Tom Jahns and Bulent Sarlioglu
S66	Additive Manufacturing in Electrical Machines	Vandana Rallabandi
S76	Axial Flux Machines II	Greg Heins and Giulio De Donato
S78	Bearingless and High-Speed Machines	Wolfgang Gruber and Matthew Gardner
S88	Synchronous Reluctance Machines	Gianmario Pellegrino and Yves Perriard
S90	Diagnostics, Noise and Vibration in Electric Machines II	David Diaz Reigosa
S100	Interior Permanent Magnet Machines	Rukmi Dutta and Takashi Kato
S102	Switched Reluctance and Flux Switching Machines II	Lavanya Vadamodala and Roy McCann
S112	IPM and Synchronous Reluctance Machines	Luigi Alberti and Tom Jahns
S114	Switched Reluctance and Flux Switching Machines III	Lavanya Vadamodala and Roy McCann
S124	Design Optimization in Electric Machines	Simone Ferrari and Peng Han
S126	Wound Field and PM Machines	Ian Brown and Rukmi Dutta



Remote Sessions: five parallel Zooms – Available at ecce2022.vfairs.com

Remote Q&A

Session	Session Title	Session Chairs
R10	PM & Synchronous Reluctance Machine Design	Akira Chiba and Fabio Giulii Capponi
R20	Electric Machine Effects of Design and Operation	Athanasios Karlis and David Diaz Reigosa
R24	Design and Performance Assessment of Electric Machines A	Sandro Rubino and Jonathan Bird
R29	Design and Performance Assessment of Electric Machines B	Matthew Gardner and Emir Poskovic



New Business – 2022 EMC Officers



EMC Officers 2022

2022 Committee Officers

- **Chair:** Dr. Greg Heins (gregheins@ieee.org)
- **Vice Chair:** Prof. Rukmi Dutta (rukmidutta@ieee.org)
- **Secretary:** Prof. Giulio De Donato (giulio.dedonato@ieee.org)
- **Past Chair:** Prof. Akira Chiba (chiba@ee.e.titech.ac.jp)



Motion to Approve Slate of Officers

2023 Committee Officers

- **Chair:** Dr. Greg Heins (gregheins@ieee.org)
- **Vice Chair:** Prof. Rukmi Dutta (rukmidutta@ieee.org)
- **Secretary:** Dr. Giulio De Donato (giulio.dedonato@ieee.org)
- **Past Chair:** Prof. Akira Chiba (chiba@ee.e.titech.ac.jp)

It is hereby moved that the house accepts the above slate of Candidates as officers of the EMC for the Year 2023



Future Conference Organization





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





IEEE ENERGY CONVERSION CONGRESS & EXPO Nashville, TN | OCT.29-Nov.2

www.ieee-ecce.org/2023

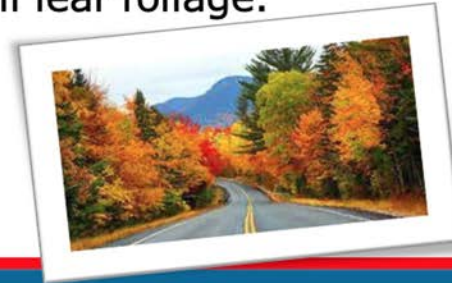
■ **Nashville, Tennessee – USA**



➤ One of the most exciting conference cities in the world!



➤ Driving distance to beautiful mountains and fall leaf foliage.





IEEE ENERGY CONVERSION CONGRESS & EXPO Nashville, TN | OCT.29-Nov.2


www.ieee-ecce.org/2023

Join ~2000 of your closest friends.

- Power Electronics
- Electric machines/drives
- Renewable Energy
- Electric Vehicles
- Passive components and materials
- Energy Conversion and Efficiency
- Many, many more topics

Important Dates

 **February 19, 2023**
Digest submission deadline

 **May 15, 2023**
Author notification

 **June 1, 2023**
2 page Late Breaking
Research Briefs



Tutorials, Exhibition, Papers on IEEE Xplore, and more!!



General Chair: Brad Lehman
b.lehman@northeastern.edu



ECCE 2023

IEEE ENERGY CONVERSION CONGRESS & EXPO Nashville, TN | OCT.29-Nov.2



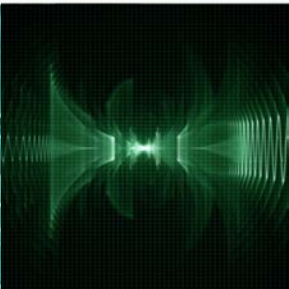
We ask IAS/PELS technical committees to nominate (send to either General Chair or Co-chairs):

General Chair: Brad Lehman b.lehman@northeastern.edu

1. Nominations + resumes of 3-4 people willing to serve as Vice Chairs. VC's supervise the TPC's/reviews of papers
 - *Subset of nominations selected based on diversity, expertise, etc.*
2. Nominations for Technical Program Committee members to handle review of the papers (similar to Associate Editor)

Of course... **PLEASE submit** papers, special sessions, tutorials





IAS Annual Meeting 2025 Planning

NASHVILLE, TN

2025 Global Engagement

- In 2025 the IAS Annual Meeting will be held in either Region 8 or Region 10
- It will not co-locate with ECCE in 2025
- Executive Board Decision Based on Survey of IAS Council in 2021
 - Better engagement with global membership
 - Mirrors previous events – IAS AM 2000 in Rome and IAS AM 2005 in Hong Kong
- Because we aim to engage with regional membership as well as regular global attendees, it is proposed that the 2025 meeting scope will be the full scope of IAS
- We expect that in 2025 the Annual Meeting will be held at a different time of year to avoid clashes with ECCE, PCIC etc. (probably late Q2?)



What's next?

- We are putting out a call for expressions of interest to host the IAS AM 2025
 - General Chair
 - Location
- If you are interested in chairing / hosting the conferences locally in R8 or R10 in 2025, contact andyknight@ieee.org
- Deadline for expressions of interest submission is Dec 1, 2022





IEEE International Electric Machines & Drives Conference
(IEMDC)

May 15-18, 2023, San Francisco, CA

General Chairs : Leila Parsa , Gerard-Andre Capolino



TECHNICAL TRACKS

TT-1 - Rotating Electrical Machines

TT-2 - Electrical Drives

TT-3 - Special Machines, Electromagnetic Actuators and Sensors

TT-4 – Thermal, Materials and Efficiency Issues

TT-5 - Design Optimization, Modelling and Simulation

TT-6 - Condition Monitoring, Fault Diagnosis and Prognosis

TT-7 - Transportation Applications

TT-8 - Energy and Grid-Connected Applications



IMPORTANT DATES

November 7, 2022	Submission of Special Session Proposals
November 30, 2022	Submission of Tutorial Proposals
December 16, 2022	Submission of 5-page digests:
February 17, 2023	Acceptance notification:
March 31, 2023	Final submission of accepted papers

For more information, please visit www.iemdc.org



AIRPORTS AND PUBLIC TRANSPORTATION

San Francisco International Airport to Downtown



Oakland airport is an alternative to SFO.



SAN FRANCISCO INTERNATIONAL AIRPORT

San Francisco Municipal Transit



SAN FRANCISCO ATTRACTIONS

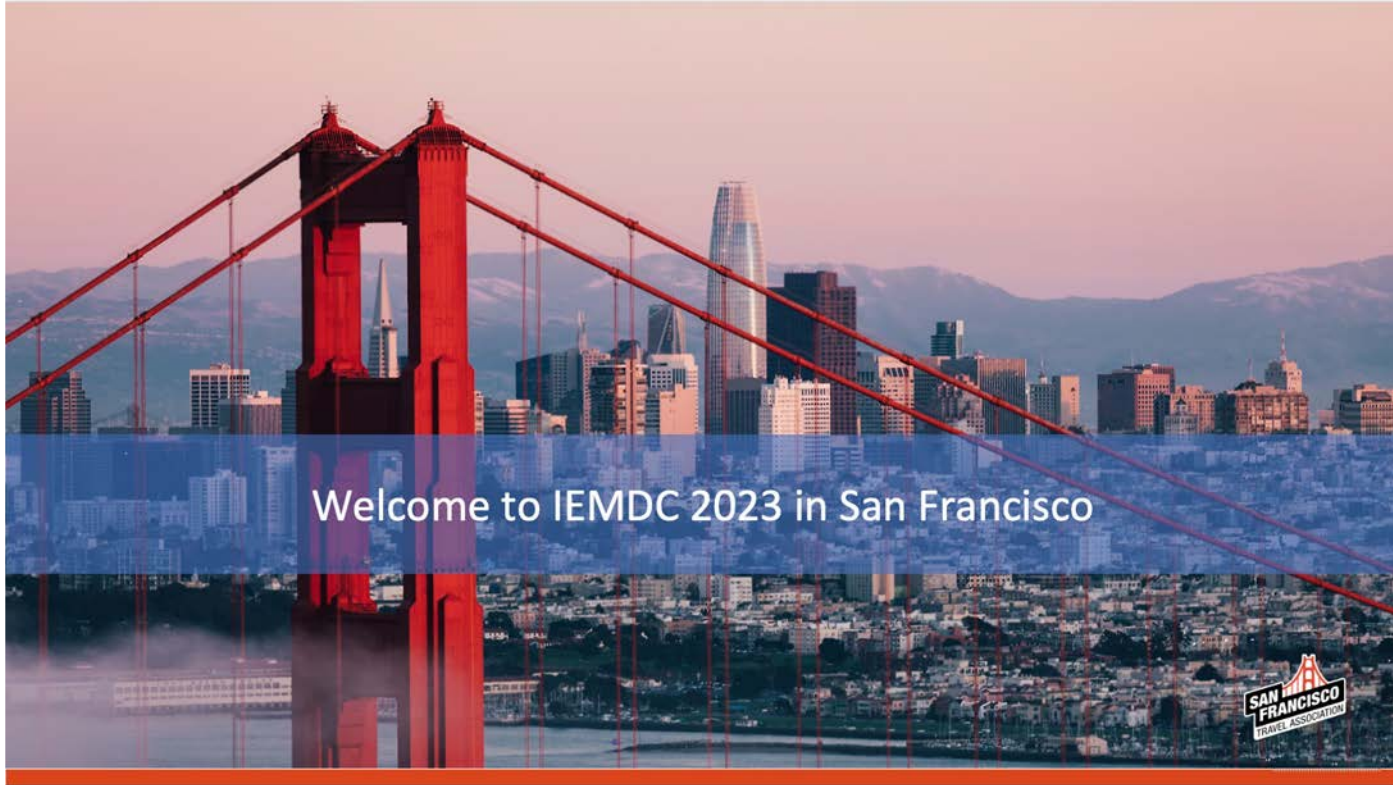


- Golden Gate Bridge
- Lombard Street
- Golden Gate Park
- Alcatraz Island
- Fisherman's Wharf
- Union square
- Palace of Fine Arts
- California Academy of Sciences



PARKS AND BEACHES





Welcome to IEMDC 2023 in San Francisco



IEEE SDEMPED 2023

Symposium on Diagnostics for Electrical Machines,
Power Electronics and Drives

General Chair

K. N. Gyftakis (Greece)

Honorary Chair

G. A. Capolino (France)

Paper submission deadline:

15th March 2023

Final submission of accepted
papers:

30th June 2023



CONFERENCE TOPICS

THE TOPICS OF INTEREST INCLUDE, BUT ARE NOT LIMITED TO FAULT DIAGNOSTICS, PROGNOSTICS, FAULT TOLERANCE, DEGRADATION, AGEING, PREDICTIVE MAINTENANCE AND RELIABILITY, FOCUSING ON:

1.	ELECTRICAL MACHINES
2.	POWER ELECTRONICS
3.	ADJUSTABLE SPEED DRIVES
4.	MATERIALS FOR ELECTRICAL MACHINES AND POWER ELECTRONICS
5.	TESTS, SENSORS AND INSTRUMENTATION
6.	SIGNAL PROCESSING, DATA ANALYTICS, AI AND MACHINE LEARNING METHODS

The graphic features a blue background with an orange header bar containing the title 'CONFERENCE TOPICS'. Below the header is a white box with a list of topics. The bottom right corner of the graphic shows a stylized illustration of a building with a dome.



IEEE SDEMPED 2023

Symposium on Diagnostics for Electrical Machines,
Power Electronics and Drives

Location: Chania, Greece

August 2023

August 2023							^	v
Mo	Tu	We	Th	Fr	Sa	Su		
31	1	2	3	4	5	6		
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		
21	22	23	24	25	26	27		
28	29	30	31	1	2	3		



6th IEEE Workshop on Electrical Machines Design, Control and Diagnosis – WEMDCD 2023 13th – 14th April 2023 Newcastle upon Tyne, England

General Co-chairs

- Dr Rafal Wrobel
- Professor Barrie Mecrow

Key Dates:

- Submission of papers opens: 7 September 2022
- Submission of papers closes: 31 December 2022
- Notification of acceptance: 14 February 2023
- Deadline for uploading final full papers and conference forms: 7 March 2023



<http://wemcd2023.com/>



Workshop Organisation

6th IEEE Workshop on Electrical Machines Design, Control and Diagnosis – WEMDCD 2023
13th – 14th April 2023 Newcastle upon Tyne, England



2 Day Event

- 4 key-note speeches
- 6 oral sessions
- 2 poster sessions

Industrial Exhibition

Newcastle International Airport

- 20 minutes from Newcastle City Centre
- Direct flights to: Amsterdam, Paris, London, Dublin, Brussels, Rome, Dusseldorf and many more.....

<http://wemdc2023.com/>



Other IEEE Sponsored Conferences in 2022 and 2023

1. *2022 Second International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART).*

Online, 23rd to 25th November 2022.

General Chair: *Prof. A. Silvestri*, University of Cassino, Italy.

Local Organizing Committee Chairman: *Prof. F. Marignetti*

Plenary Session speakers include Prof. Z.Q. Zhu, Prof. A.M. El-Refaie, Prof. N. Bianchi and Dr. R.P. Deodhar.

<http://smart-conf.com>

1. *IEEE International Conference on Energy Technologies for Future Grids (ETFG 2023).*

Wollongong, Australia, 3rd to 6th December 2023.

General Chair: *Prof K. Muttaqi*, University of Wollongong

Topics include electric motors for light and heavy electric vehicles

Paper Submission Deadline: **01/04/2023**

<https://attend.ieee.org/etfg-2023/>



Other Business





Our Mission: Nagamori Foundation

Support research and development engineers in the technical fields of motor, power generator, actuator, and related technologies.

Nagamori Awards:

- Commend those who have made innovative technological development in the motor related technical fields.
- Applicants must be entry to mid-career researchers and engineers.
- Will be given to approximately six people. The Grand Nagamori Award winner will receive a prize of 5 million yen, and each of the Nagamori Award winners will receive 2 million yen.





Application Guideline for the 9th Nagamori Awards

Fields covered	Technical fields related to motors, actuators and power generators, and their control methods, application technologies, etc.
Applicant eligibility	Applicants must be entry to mid-career researchers or development engineers who have made an outstanding achievement in the fields covered by the Nagamori Awards. <u>Entry to mid-career – normally defined as no more than 30 years of research after obtaining the Bachelor's degree.</u>
Application method	Self-nomination or nomination from academic institution are accepted. <u>A recommendation letter</u> by an expert in the field covered by the Awards, or a senior member of your Academic Society, organization, research department, etc. must be submitted.





Application Guideline for the 9th Nagamori Awards

Application period	November 01, 2022 - January 31, 2023 Applications must be postmarked on, or before, January 31, 2023
Application condition	Documents must be submitted in either English or Japanese.
Awards & prizes	Nagamori Awards will be given to approximately six people. The winner of <u>The Grand Nagamori Award will be announced during the Awards ceremony</u> . The Grand Nagamori Award winner will receive a prize of 5 million yen , and each of the Nagamori Award winners will receive 2 million yen .

*The 9th Nagamori Awards Ceremony will be held on September 3, 2023, in **Kyoto, Japan**

Nagamori Foundation : <https://www.nidec.com/en/nagamori-f/>





Winners of The 8th Nagamori Awards

Huijun Gao	Professor and Director Research Institute of Intelligent Control and Systems, Harbin Institute of Technology
Yunwei Ryan Li	Professor and Acting Department Chair Department of Electrical and Computer Engineering, University of Alberta
Burak Ozpineci	Section Head Vehicle and Mobility Systems Research Section, Building and Transportation Science Division, Oak Ridge National Laboratory
Gianmario Pellegrino Grand Nagamori Award	Full Professor Department of Energy “Galileo Ferraris”, Politecnico di Torino
Maryam Saeedifard	Professor School of Electrical and Computer Engineering, Georgia Institute of Technology
Akio Yamamoto	Professor, Department of Human and Engineering Environmental Studies, Graduate School of Frontier Sciences, The University of Tokyo



Motion to Adjourn

