



Industrial Drives Committee Meeting
September 25th, 2018
Portland, Or



IAS Industrial Drives Committee(IDC) Meeting

Tuesday, September 25, 2018

6:00 pm – 7:00 pm

Room B114

Agenda

1. Introduction of members and recognition of new members and IEEE fellows
2. Old business/reports
 - Approval of 2017 meeting minutes
 - Vice-chair, Paper Review – Transactions papers
 - Vice-chair, Programs – Report on ECCE 2018
 - Vice-chair, Programs – New IDC website
 - Vice-chair, Standards Subcommittee
 - Report on SLED 2018
3. Awards and recognitions
 - Prize papers
 - Awards Subcommittee 2018
 - Associate Editors
4. New business
 - Nomination of 2019 IDC slate of officers
5. Adjournment
 - Future conferences
 - ECCE 2019
 - EPE ECCE-Europe 2019
 - SDEMPED 2019
 - IEMDC 2019
 - Submission of papers to Transactions on Industry Applications
 - Recruit topic chairs & session chairs for ECCE 2019, IEMDC2019, and APEC

1.- Introduction of Members

- Recognition of new members and IEEE Fellows

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2.- Old business/reports

- Approval of 2017 meeting minutes
- Mahesh Swamy, Paper Review – Transactions papers
- Luca Zarri, Programs – Report on ECCE 2018
- Report on SLED 2018

2.- Old business/reports

Approval of 2017 meeting minutes

Written by Luca Zarri, announced to IDC members to download it at IDC website (<http://sites.ieee.org/ias-idc/resources/>) in Nov. 2017.

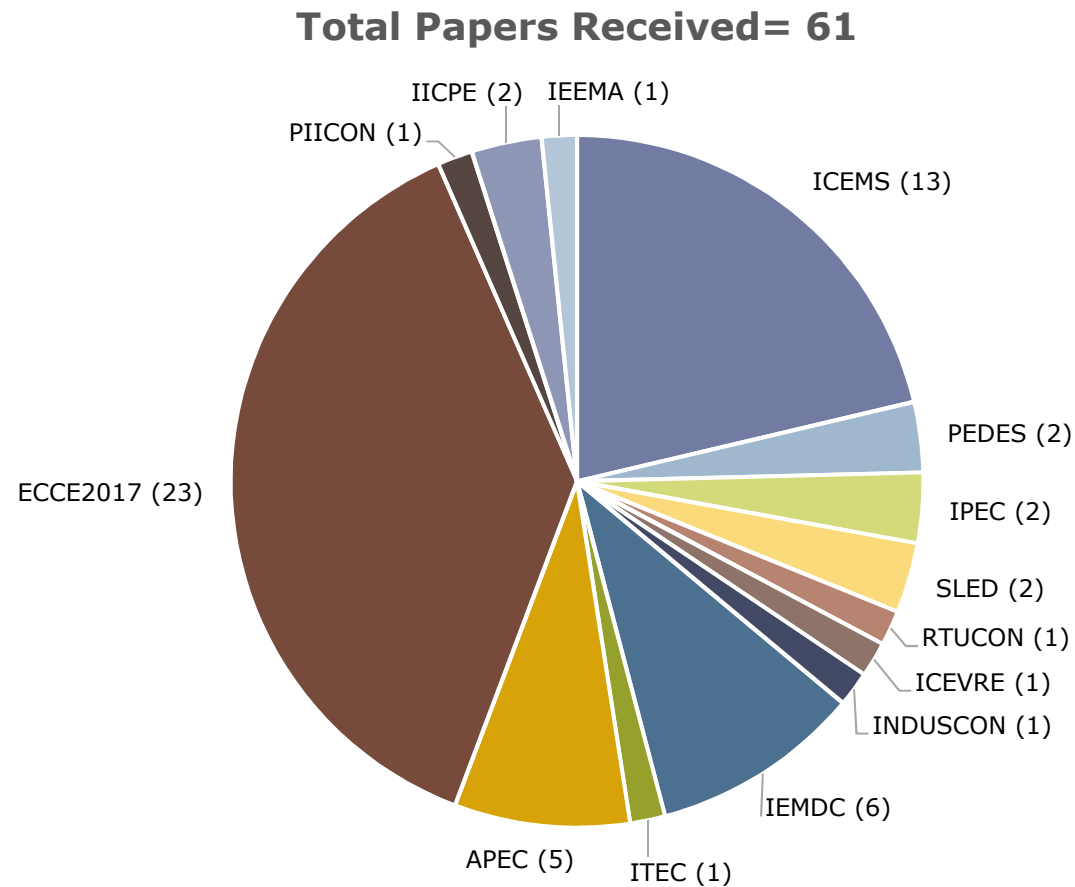
Announced again to IDC members on 5th Sept. 2018.

2.- Old business/reports

Vice-Chair Paper Review Report on Transactions papers

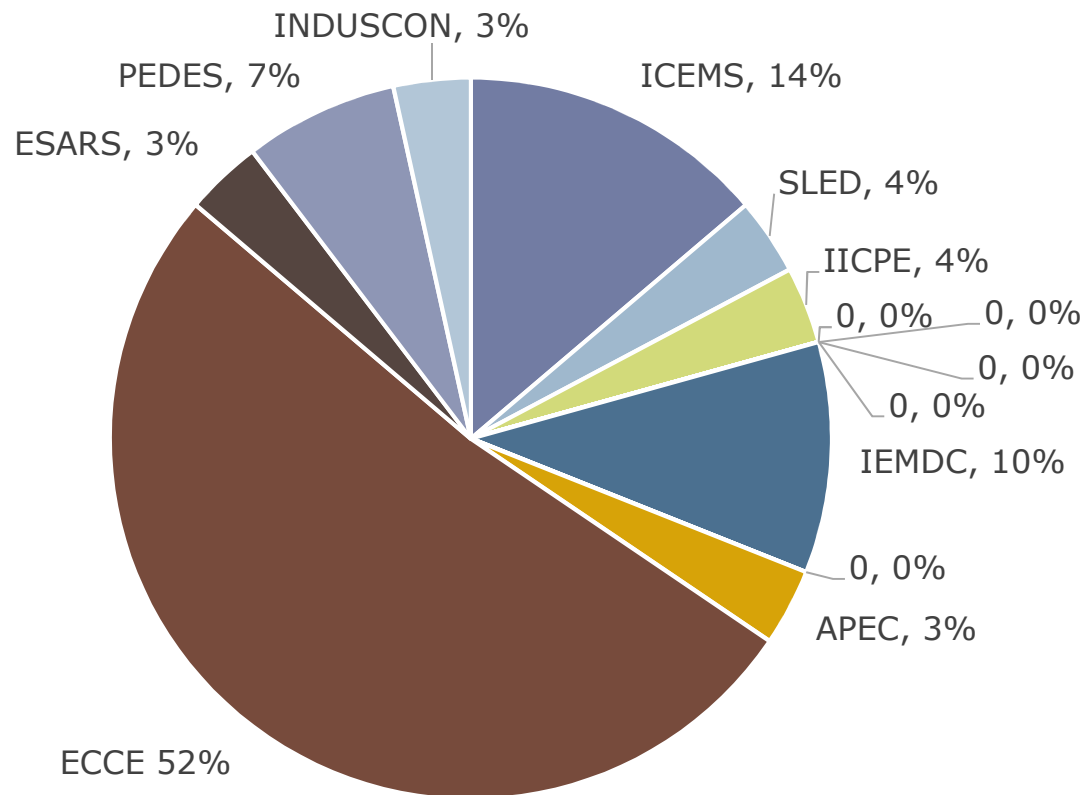
Mahesh Swamy

Papers Submitted by Conference



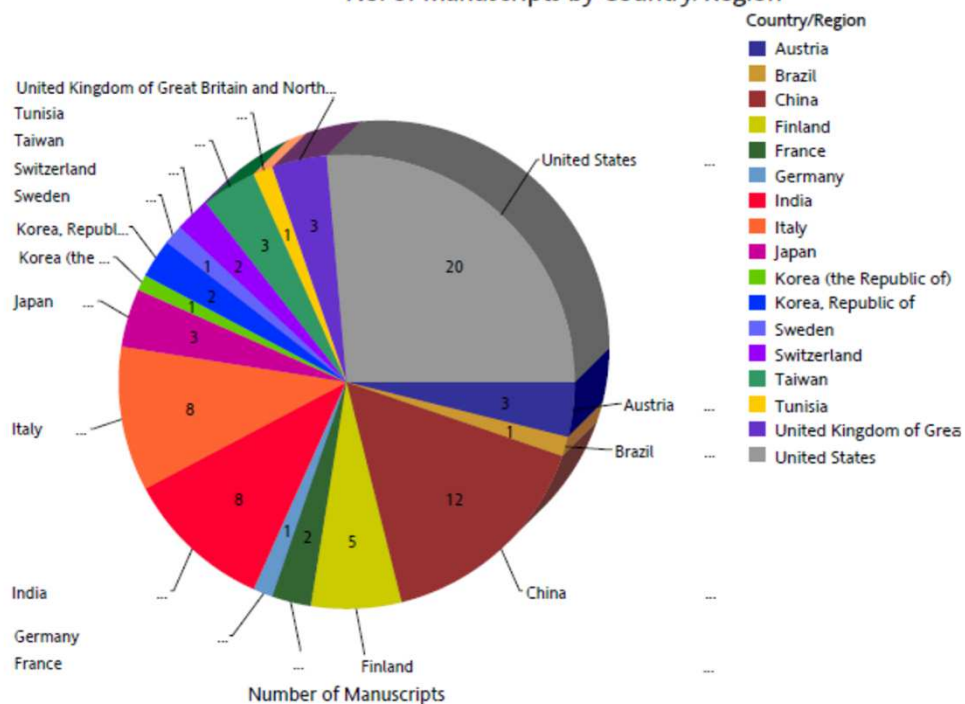
Papers Accepted by Conference

All Accepted Papers by Conference



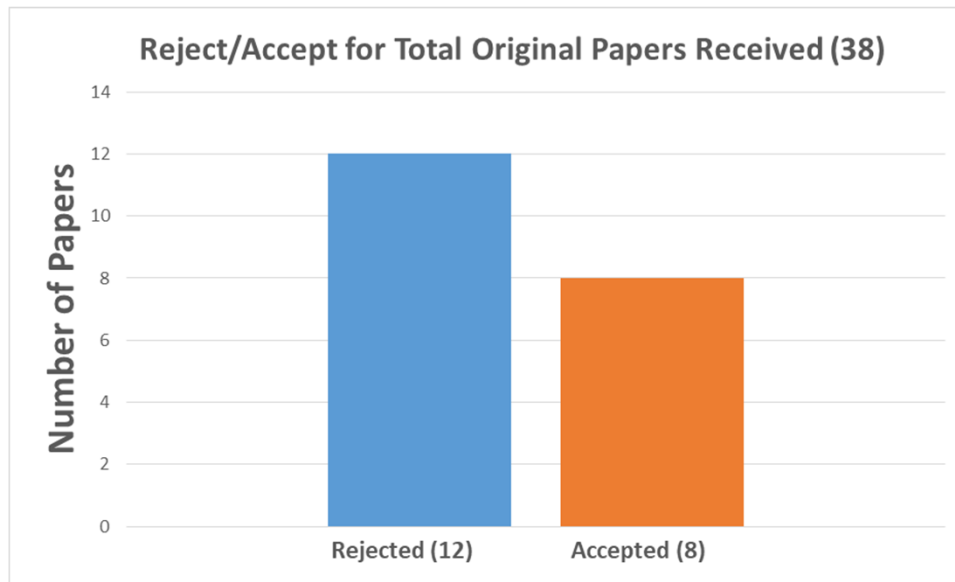
Manuscript Decided by Country of Origin

No. of Manuscripts by Country/Region



Country/Region of Submitting Author	Number of Manuscripts	Percentage of Total
Austria	3	3.9%
Brazil	1	1.3%
China	12	15.8%
Finland	5	6.6%
France	2	2.6%
Germany	1	1.3%
India	8	10.5%
Italy	8	10.5%
Japan	3	3.9%
Korea (the Republic of)	1	1.3%
Korea, Republic of	2	2.6%
Sweden	1	1.3%
Switzerland	2	2.6%
Taiwan	3	3.9%
Tunisia	1	1.3%
United Kingdom of Great Britain and Northern Ireland	3	3.9%
United States	20	26.3%
Total:	76	100.0%

Accept and Reject Ratios

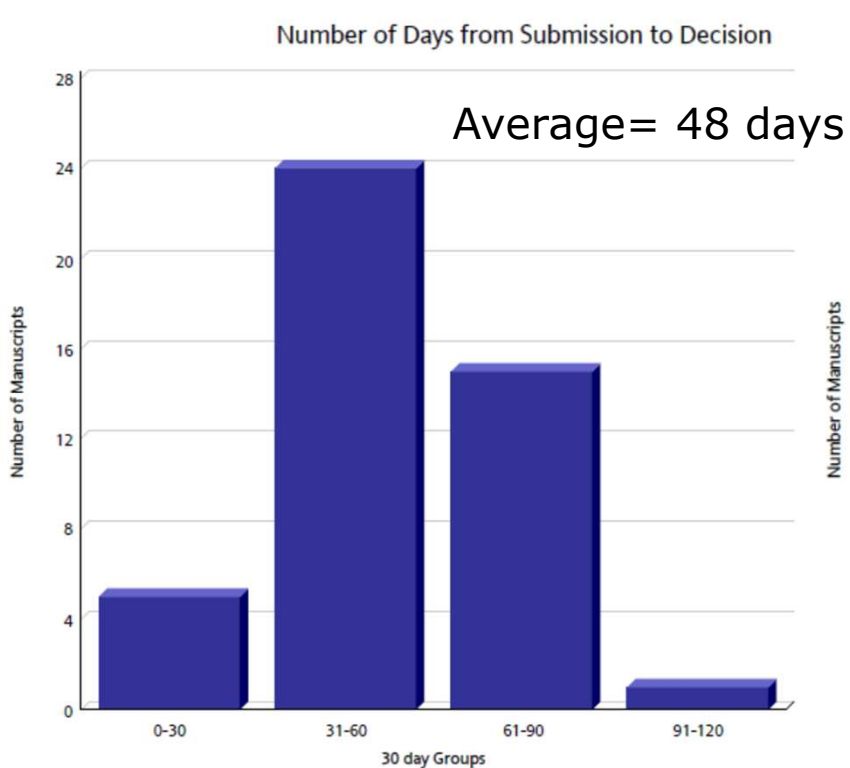


Acceptance = 40%

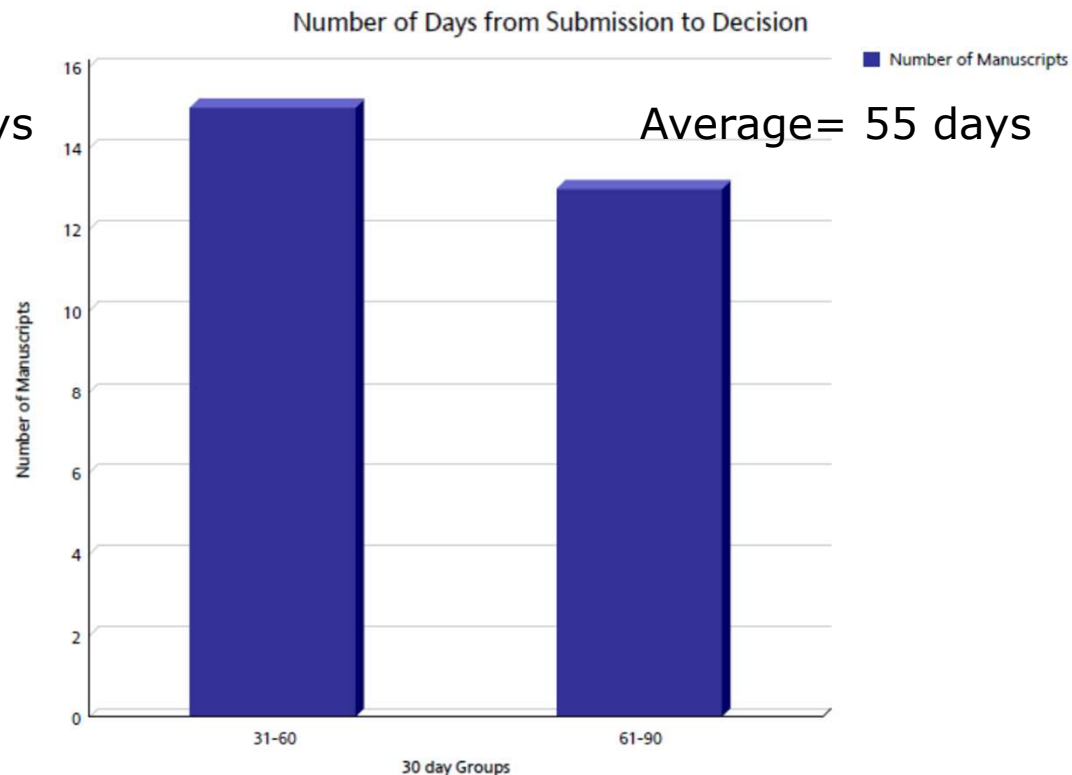


Acceptance = 67.4%

Time taken from Submission to Decision

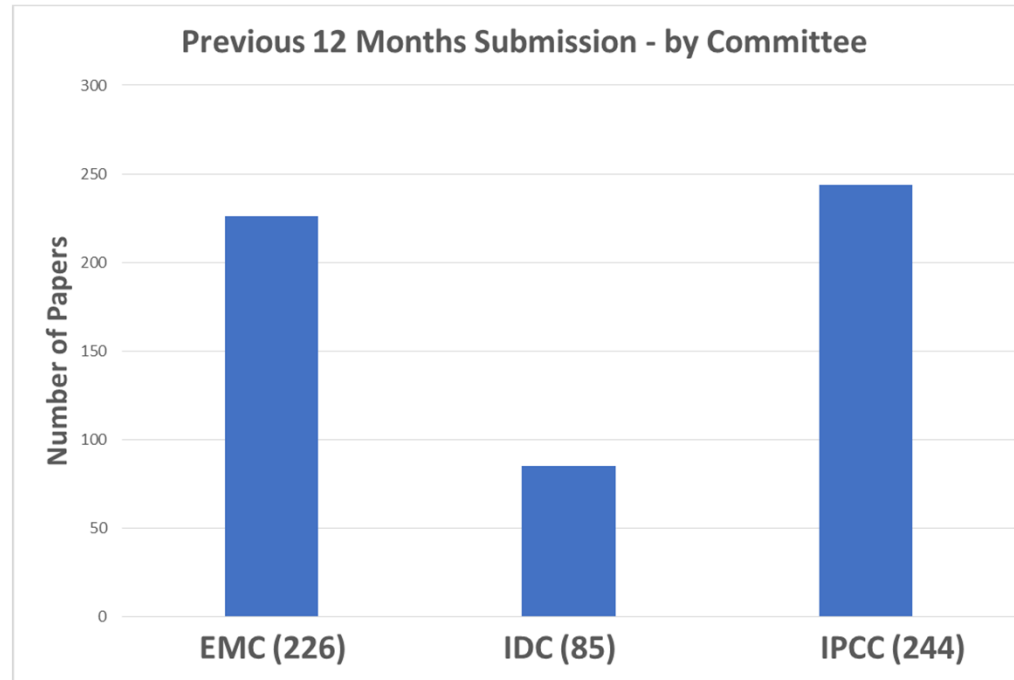


Taking all manuscripts into account



Taking only Original manuscripts into account

Comparison with Other Committees



Data collected from January 2017 till Present			
	Reject	Accept	Acceptance Ratio
EMC	104	205	66.34%
IDC	57	98	63.23%
IPCC	171	181	51.42%

2.- Old business/reports

Programs – Report on ECCE 2018

Luca Zarri

ECCE 2018 Technical Program Committee Members, Electric Drives

Vice-chairs

Fernando Briz

Luca Zarri

Topic Chairs (21)

- ❖ Di Pan
- ❖ Ali Bazzi
- ❖ Michele Mengoni
- ❖ David Reigosa
- ❖ Rakib Islam
- ❖ Lei Hao
- ❖ Wei Xu
- ❖ Yue Zhao
- ❖ Yukai Wang
- ❖ Juan Manuel Guerrero Muñoz
- ❖ Alireza Fatemi
- ❖ Davide Barater
- ❖ Fabio Giulii Capponi
- ❖ Roberto Petrella
- ❖ Shafiq Ahmed Odhano
- ❖ Jiangbiao He
- ❖ Pinjia Zhang
- ❖ Liang Du
- ❖ Athanasios Karlis
- ❖ Lijun He

ECCE 2018 Technical Program Committee Members, Electric Drives

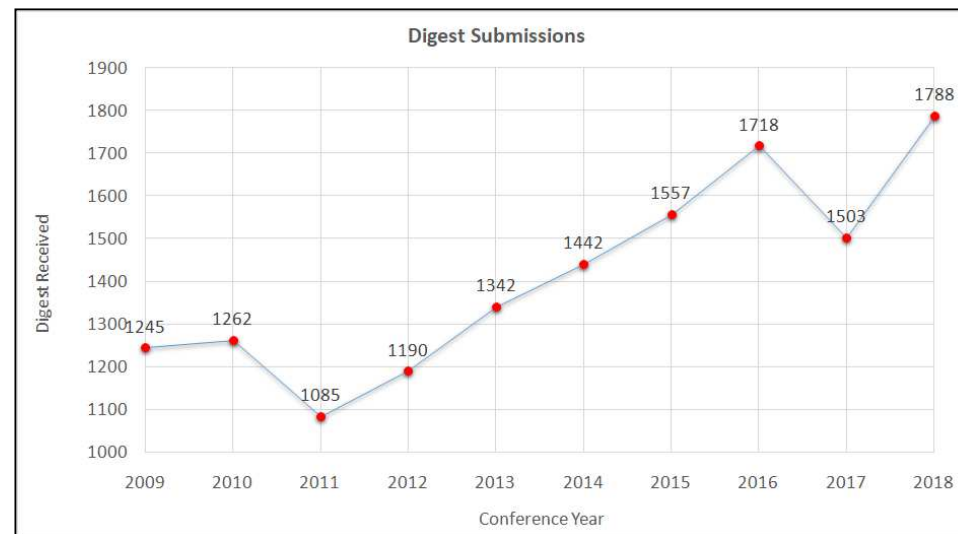
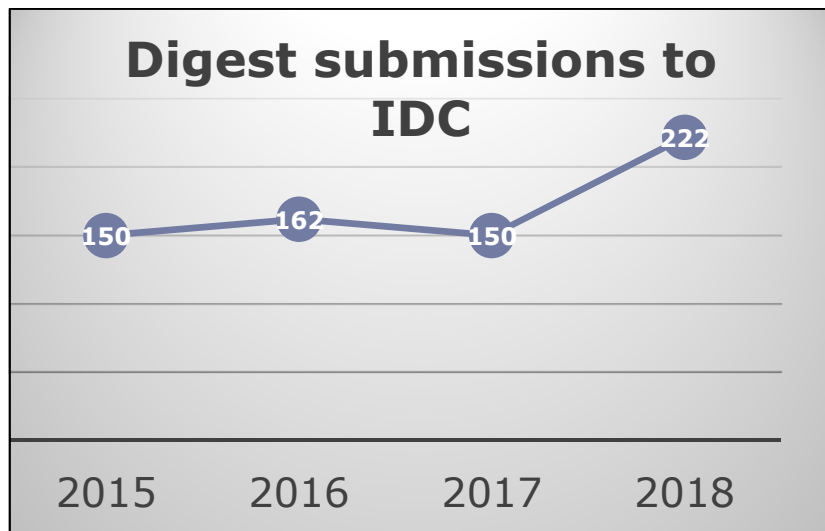
Session Chairs (34)

- ❖ Ali Bazzi
- ❖ Alireza Fatemi
- ❖ Athanasios Karlis
- ❖ Chowdhury Mazharul
- ❖ David Diaz Reigosa
- ❖ Du Liang
- ❖ Fabio Giulii Capponi
- ❖ Fernando Briz
- ❖ Francesco Cupertino
- ❖ Giacomo Scelba
- ❖ Giulio De Donato
- ❖ Islam Rakib
- ❖ Jesus Doval
- ❖ Jimmy Pellegrino
- ❖ Juan Manuel Guerrero
- ❖ Jul-Ki Seok
- ❖ Kyo-Beum Lee
- ❖ Lei Hao
- ❖ Luca Zarri
- ❖ Mahesh Swamy
- ❖ Marcello Pucci
- ❖ Mario Pacas
- ❖ Marko Hinkannen
- ❖ Maurizio Cirrincione
- ❖ Michael Harke
- ❖ Pan Di
- ❖ Pinjia Zhang
- ❖ Prasad Rashmi
- ❖ Radu Bojoi
- ❖ Roberto Petrella
- ❖ Sang Bin Lee
- ❖ Shafiq Odhano
- ❖ Thomas Wolbank
- ❖ Zhao Yue

Track H: Electric Drives (222 submissions)

1. General (8)
2. Induction motor drives (18)
3. PM and IPM motor drives (42)
4. Control of electric drives (51)
5. Drives applications (5)
6. Sensorless drives (24)
7. Sensors and transducers (3)
8. Diagnosis, reliability and EMI (12)
9. High speeds and direct drives (9)
10. Energy efficient motor drives (8)
11. Medium voltage drives and high power drives (9)
12. New technologies and integrated drives (7)
13. Drives for aerospace and traction applications (8)
14. Electrical drives for wind & other renewable integration (12)
15. Drive-utility interface (3)

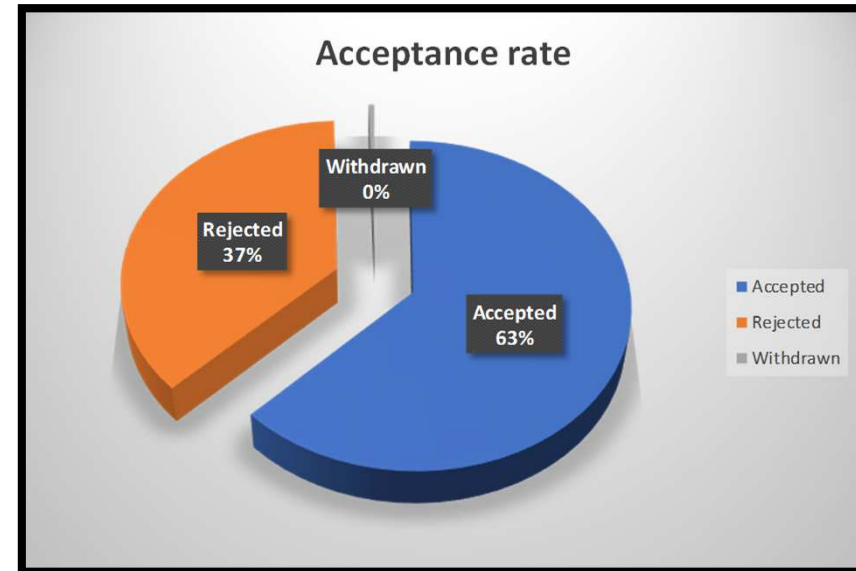
Submission trends



- The number of digests received was almost constant from 2015 to 2017.
- In 2018, the number of submissions has risen by nearly 50% compared to the previous years.

Overall Statistics

- Number of paper submitted: 222
 - Papers withdrawn: 2
 - Papers accepted: 138
 - Papers rejected: 82
-
- Acceptance ratio is 63%
 - A total of 70 papers were distributed into 17 oral sessions
 - The papers were selected purely on merit of abstracts.
 - The average number of reviews per paper was around 4.5.

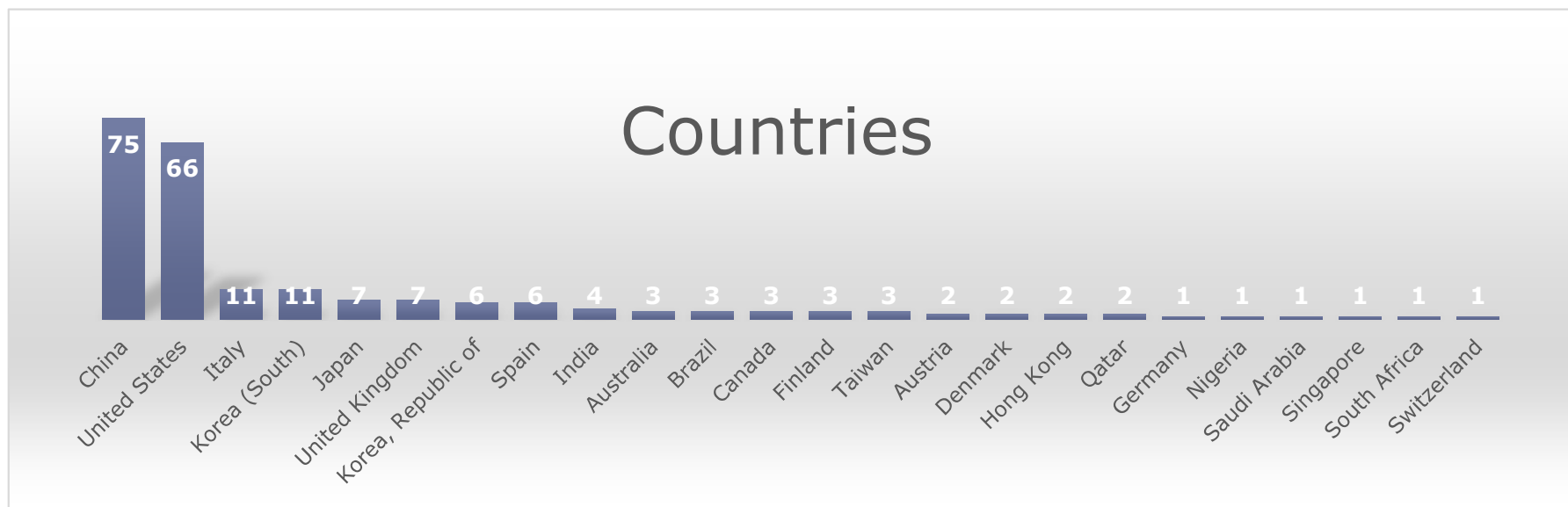


Overall Statistics

Topic	All	Accepted Sent	Rejected Sent	Acceptance Rate
A	109	76	33	70%
B	244	155	88	64%
C	17	11	6	65%
D	97	73	24	75%
E	284	172	110	61%
F	303	215	86	71%
G	248	188	60	76%
H	220	138	82	63%
I	150	106	44	71%
J	18	13	5	72%
K	65	42	23	65%
Totals:	1755	1189	561	68%

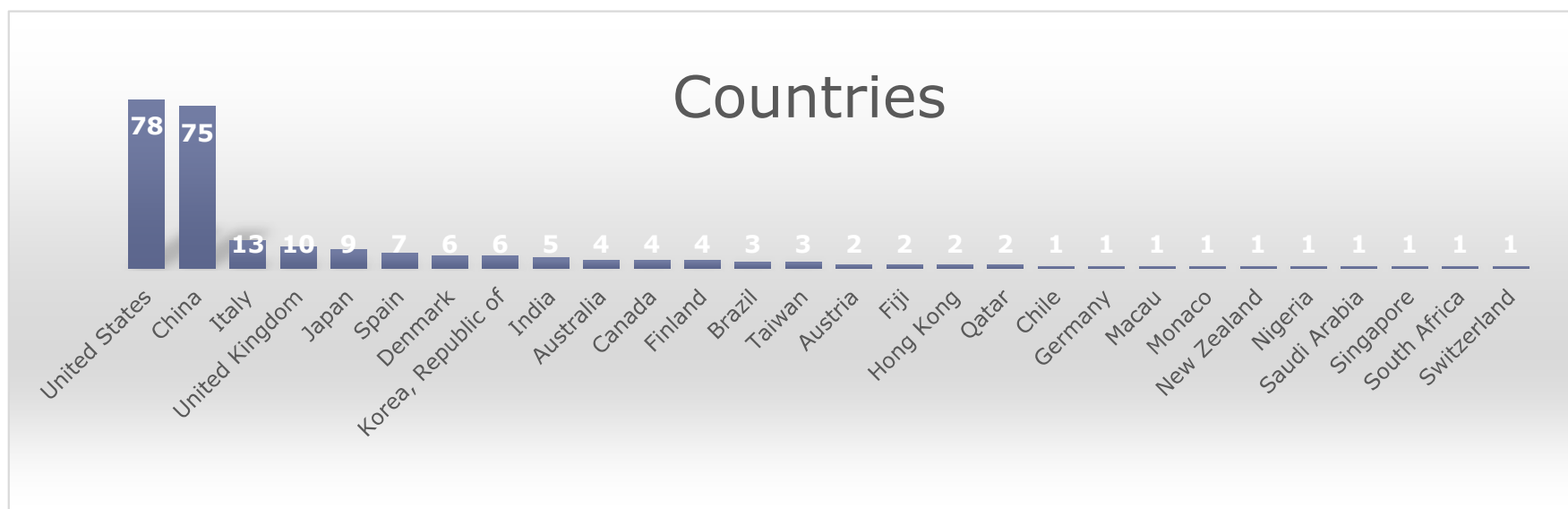
Submitting countries (first author)

- A total of 24 different countries are involved
- China (75) and United States (66) submitted about 63 % of the total number of digests, followed by Italy (11), South Korea (11), Japan (7) and UK (7).

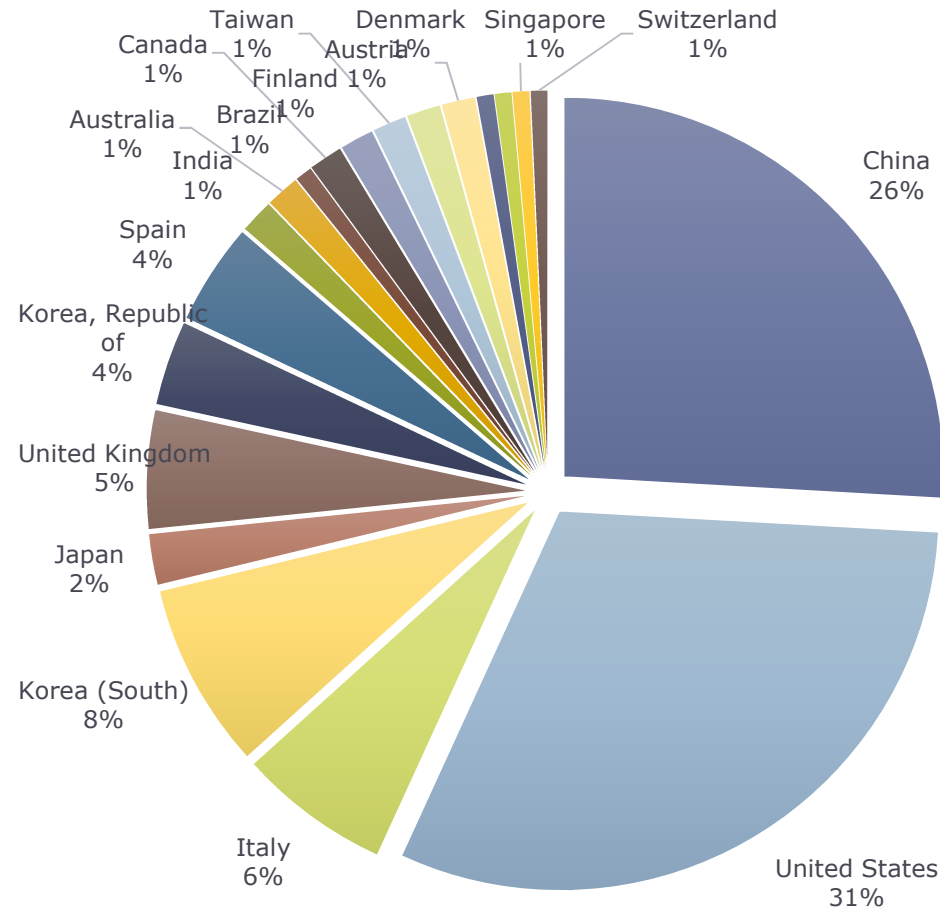


Countries of the involved authors

- At least an author is from US in 78 digests, China in 75 digests, Italy in 13 digests, UK in 10 digests, Japan in 9 digests and Spain in 7 digests.

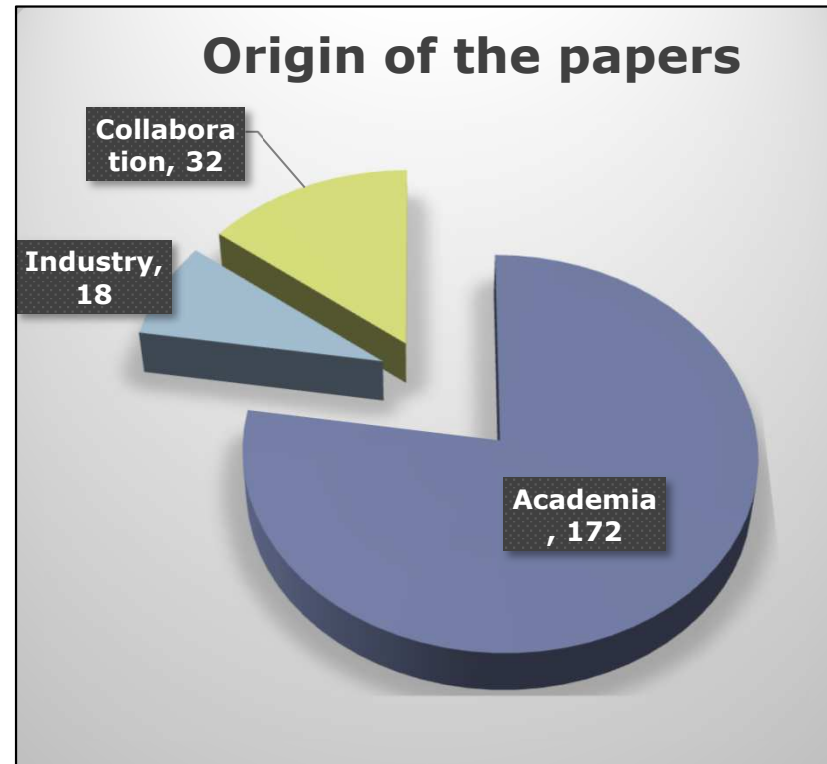


Distribution of the accepted papers based on the country of the submitting author

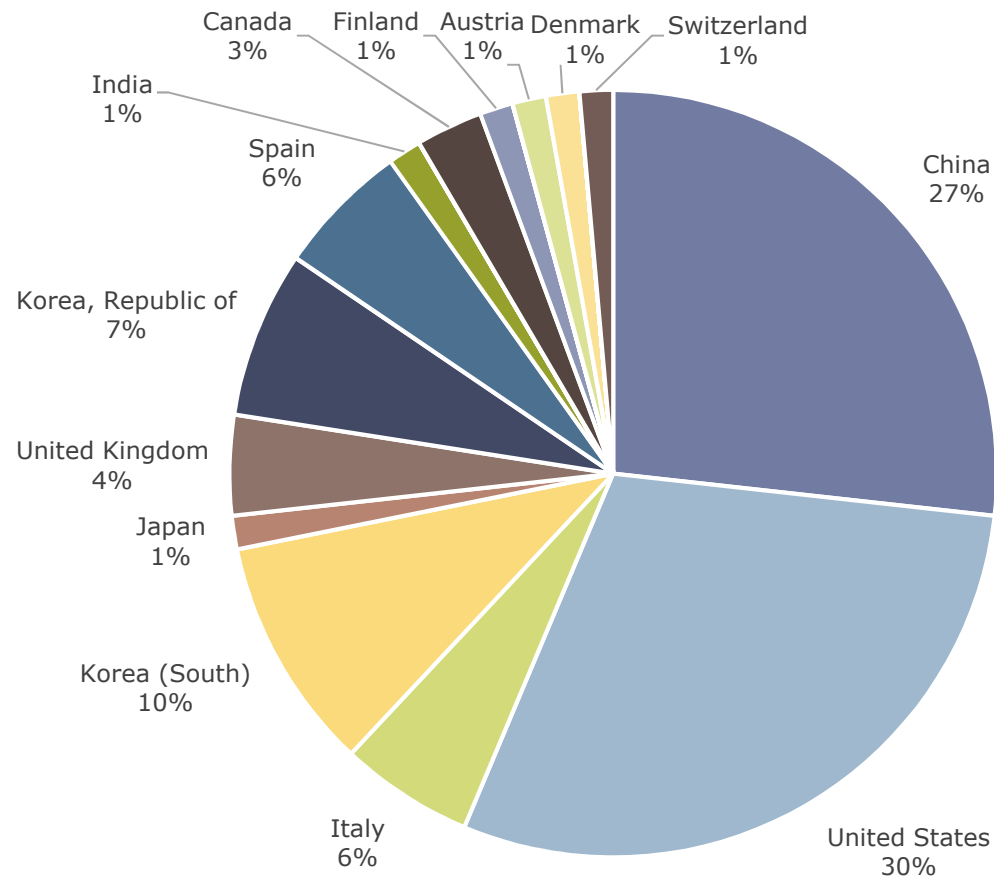


Relevant Statistics

- Number of papers with a student as the first author: 107 (50 last year)
- Number of papers with a female author (Women in Engineering): 14
- Number of papers purely from industry: 18 (11 last year)
- Number of papers resulting from a collaboration: 32 (13 last year)



Accepted Student Papers Based on the Country of the University of the First Student Author



2.- Old business/reports

Programs – New IDC website

Luca Zarri




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IDC Website: <http://sites.ieee.org/ias-idc/>

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

IEEE IAS Industrial Drives Committee



Search IEEE IAS Industrial Drives Committee

[Home](#) [Officers](#) [Subcommittees](#) [Publications](#) [Recognition](#) [News](#) [Resources](#) [Pictures](#) [Join](#)

Home

The Industrial Drives Committee is a committee of the Industry Applications Society (IAS) of the Institute of Electrical and Electronic Engineers (IEEE).

The scope of the Industrial Drives Committee (IDC) is the treatment of all matters within the scope of the IAS in which the dominant factors relate to the suitability and application of electric motor drive systems equipment to industrial machines and processes. In addition to conventional motor drives, the scope includes other applications for the conversion of energy from electrical to mechanical or visa versa.

The objective of IDC is "To advance the theory, standards and practice of industrial drives as related to the design, operation and installation of equipment within the scope of the Industrial Drives Committee." As a means of achieving its objective, IDC selects subjects and encourages the development of formal papers, panel groups, tutorials, etc. to be presented at the conferences and meetings sponsored by the Committee.

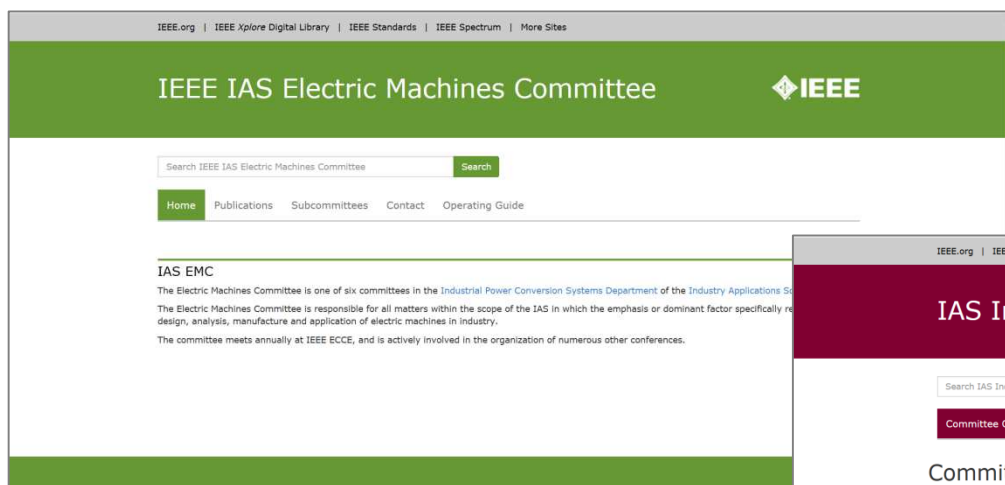
The Committee works actively in developing and promoting standards within its scope.

Latest News

- [December 2017](#)
- [November 2017](#)

IDC Website: <http://sites.ieee.org/ias-idc/>

- Quite similar to the website of other committees, such as IDC and IPCC



IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

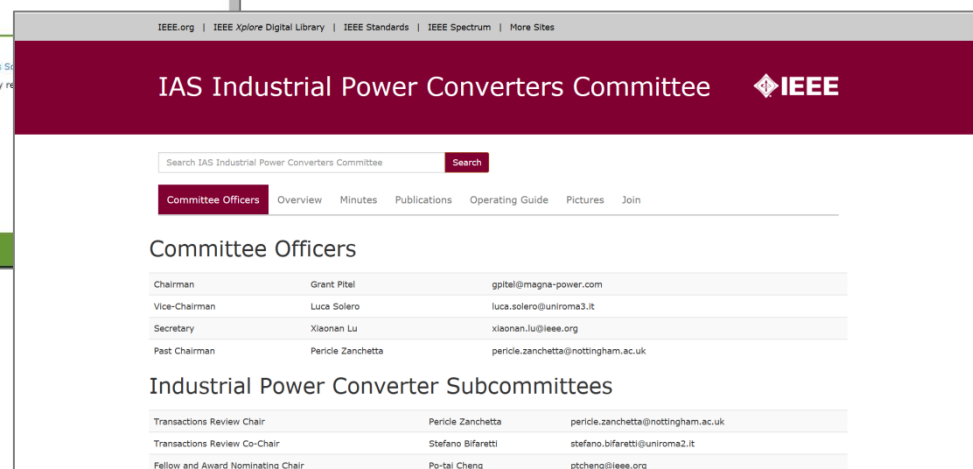
IEEE IAS Electric Machines Committee

Search IEEE IAS Electric Machines Committee

Home Publications Subcommittees Contact Operating Guide

IAS EMC

The Electric Machines Committee is one of six committees in the Industrial Power Conversion Systems Department of the Industry Applications Society. The Electric Machines Committee is responsible for all matters within the scope of the IAS in which the emphasis or dominant factor specifically relates to the design, analysis, manufacture and application of electric machines in industry. The committee meets annually at IEEE ECCE, and is actively involved in the organization of numerous other conferences.



IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

IAS Industrial Power Converters Committee

Search IAS Industrial Power Converters Committee

Committee Officers Overview Minutes Publications Operating Guide Pictures Join

Committee Officers

Chairman	Grant Pitel	gpitel@magna-power.com
Vice-Chairman	Luca Solero	luca.solero@uniroma3.it
Secretary	Xiaonan Lu	xiaonan.lu@ieee.org
Past Chairman	Pericle Zanchetta	pericle.zanchetta@nottingham.ac.uk

Industrial Power Converter Subcommittees

Transactions Review Chair	Pericle Zanchetta	pericle.zanchetta@nottingham.ac.uk
Transactions Review Co-Chair	Stefano Bifaretti	stefano.bifaretti@uniroma2.it
Fellow and Award Nominating Chair	Po-tai Cheng	ptcheng@ieee.org

IDC Website: <http://sites.ieee.org/ias-idc/>

- Officers (roles, contact emails)
- Subcommittees (standards, awards,...)
- Publications (conferences and transactions)
- Recognitions (best paper awards)
- News
- Resources (meeting minutes)
- Pictures
- Join

2.- Old business/reports

Vice-Chair Standards Subcommittee

Mahesh Swamy

IDC Standards Subcommittee

Present Members of Standards Subcommittee

1. Pinzia Zhang – Tsinghua University
2. Liang Du – Temple University
3. Fang Luo – University of Arkansas
4. Yue Zhao – University of Arkansas
5. Joseba Arza – Ingeteam Power Technology

Title of Standard

“Measurement and Quantification of Efficiency of an Electrical System Comprising of Variable Frequency Drives Operating AC Motors”

Above standard aims to deal with System Efficiency rather than Component Efficiency – system efficiency is more relevant to end user compared to drive or motor efficiency.

Needs of the IDC Standards Subcommittee

- We need more IDC members to participate in the Standards Subcommittee
- Relevant Industry topics can be taken up and perhaps join other working groups to collaborate with new or re-writing existing standards
- We need a person from the Industry to lead the IDC Standards Subcommittee.

2.- Old business/reports

Programs – Report on SLED 2018

Marko Hinkkanen
Aalto University, Finland



A?
Aalto University

SLED 2018

Helsinki, Finland
Sept. 13–14, 2018



2018 IEEE 9th International Symposium on Sensorless Control for Electrical Drives (SLED)

Marko Hinkkanen
General Co-Chair

Report, Sept. 25, 2018

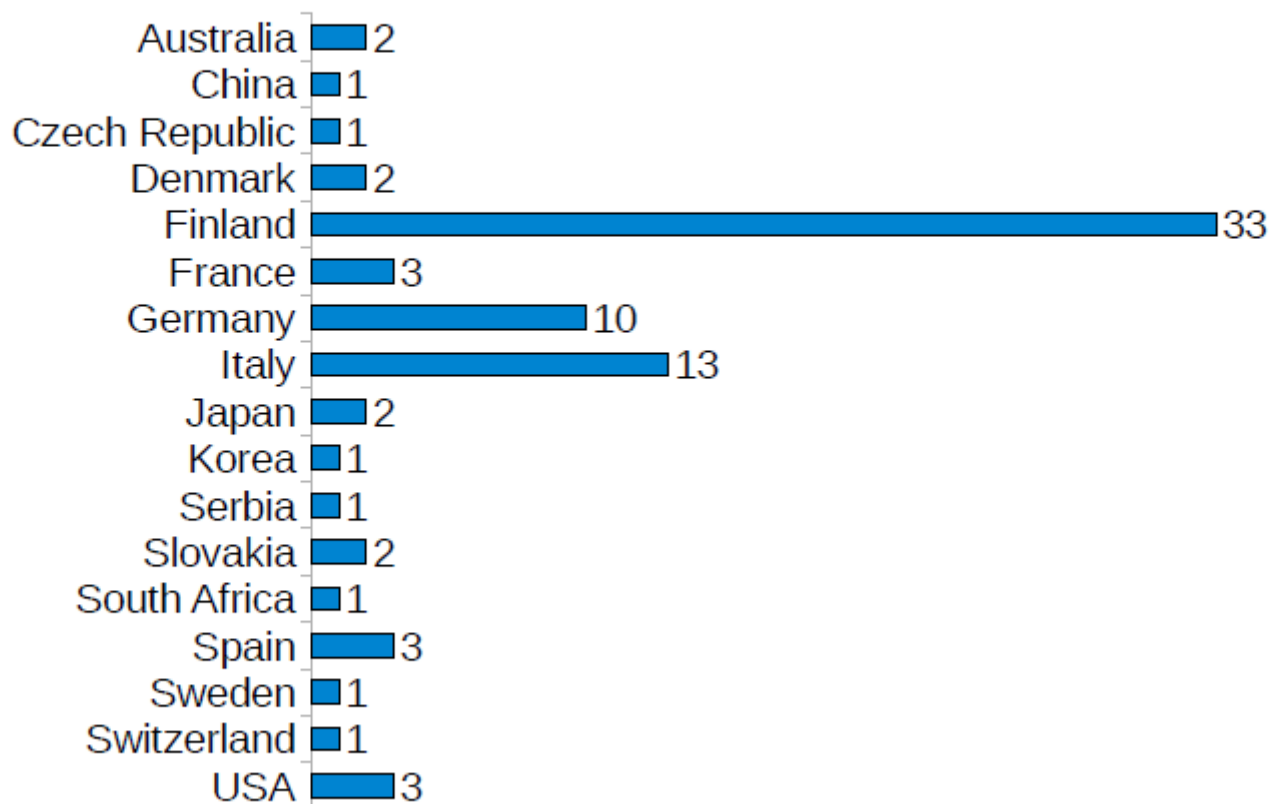
Organizers and Sponsors

- General Co-Chairs
 - Marko Hinkkanen
 - Jorma Kyyrä
- Technical Program Chair
 - Seppo Saarakkala
- Financial sponsor
 - IAS
- Technical co-sponsors
 - PELS and IES
- Supporter
 - ABB Oy Drives, Helsinki





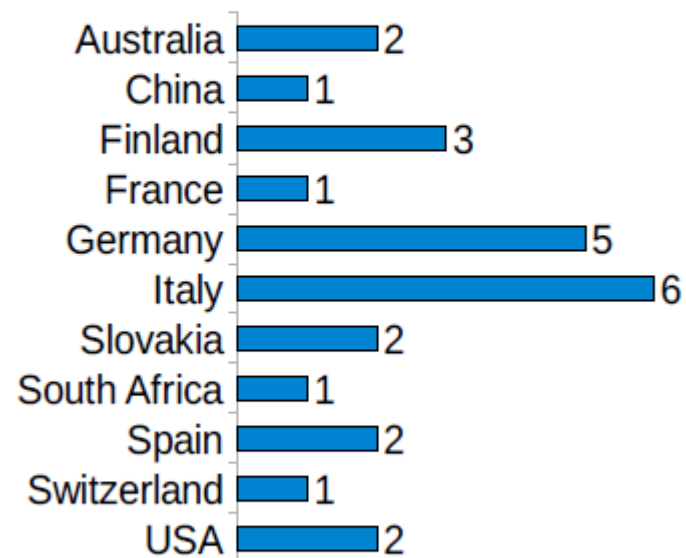
80 Attendees From 17 Countries



Program

- **3 keynotes**
 - Frede Blaabjerg
 - Lennart Harnefors
 - Matti Kauhanen
- 7 technical sessions
 - **26 presented papers**
(34 submitted digests)
- **Technical tour at ABB Drives**
- Dinner (Fat Lizard Restaurant, Aalto University Campus, Espoo)

Affiliation countries of first authors



3 Keynotes



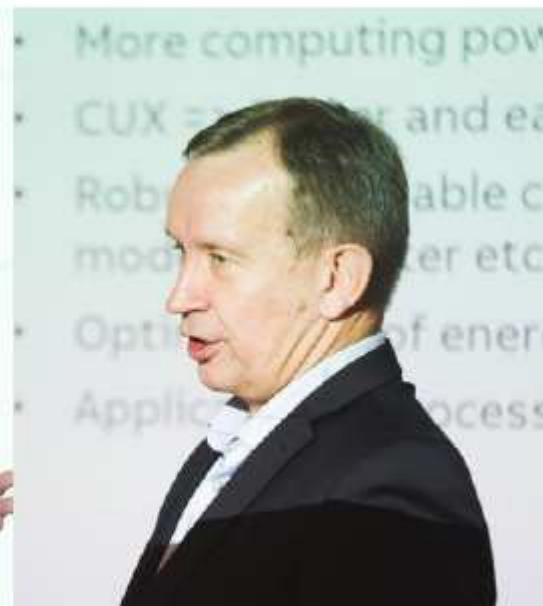
Frede Blaabjerg

Aalborg University
Denmark



Lennart Harnefors

ABB CRC / KTH Stockholm
Sweden



Matti Kauhanen

ABB Oy Drives
Finland



Thanks!



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3.- Awards and recognitions

Prize papers and Awards Subcommittee

Fabio Giulii Capponi
University of Rome "La Sapienza"

3.- Awards and Recognitions

Conference Awards

Papers considered

All ECCE papers submitted to Trans. on Industry Applications that received a non-negative review by End of November were considered (15 papers).

Evaluation Criteria

- a. Readability
- b. Use of Figures and Graphics
- c. Education
- d. Broad Interest
- e. Significance
- f. Impact

3.- Awards and Recognitions

Conference Awards

Review process

- 1) According to the above criteria, each reviewer was requested to define his preferred ranking list of the 15 papers.
- 2) A score was given to each paper according to its position in each ranking list. For example, if a paper ranked #1, it received 14 points (because it was better than the remaining 14 papers, according to the reviewer's opinion), if it ranked #15, it received no point.
- 3) The scores resulting from the reviewers' opinions were summed to find the final score of each paper (this number has a very practical meaning - if we suppose to compare the papers with each other, this final score represents the number of comparisons won by each paper).

3.- Awards and Recognitions

Awards Subcommittee

- *Fabio Giulii Capponi (Chair)* *Sapienza – University of Rome*
- *Richard Lukaszewski* *Allen-Bradley*
- *Ion Boldea* *University Politechnica Timisoara*
- *Pierluigi Tenca* *Phase Motion Control*
- *Seung-Ki Sul* *Seoul National University*
- *Rakib Islam* *Nexteer Automotive*
- *Jun Koo Kang* *LG Electronics*
- *Semyon Royak* *Rockwell Automation*

Third Prize

Automatic Tuning for Sensorless Commissioning
of Synchronous Reluctance Machines Augmented
with High Frequency Voltage Injection

Paolo Pescetto, Gianmario Pellegrino

Second Prize

A Novel Active Damping Scheme for Use with Regenerative Converters

Mahesh Swamy

First Prize

Optimal Control of Synchronous Motors: Plug-and-Play Method

*Hafiz Asad Ali Awan, Zhanfeng Song,
Seppo E. Saarakkala, Marko Hinkkanen*

Prize Paper Awards 2019

- The papers - submitted to IEEE Trans. on Industry Applications - that **receive a non-negative review by the end of February** will be considered for the prize paper awards.

3.- Awards and Recognitions

Associate Editors

- Giacomo Scelba
- Roberto Petrella
- Long Wu
- Marcello Pucci
- Ramakrishnan Raja
- Davide Barater
- David Diaz
- Pinjia Zhang
- Yue Zhao
- Kevin Lee

Thank you to all Associate Editors for your help!

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4.- New Business

Nomination of 2019 IDC slate of officers

- Chair: Fernando Briz, University of Oviedo, Spain
- Vice Chair - Papers: Mahesh Swamy, Yaskawa America Inc., USA
- Vice Chair - Programs: Luca Zarri, University of Bologna, Italy
- Secretary: Jul-Ki Seok, Yeungnam University, Republic of Korea
- Past Chair: Michael Harke, UTC AEROSPACE SYSTEMS, USA

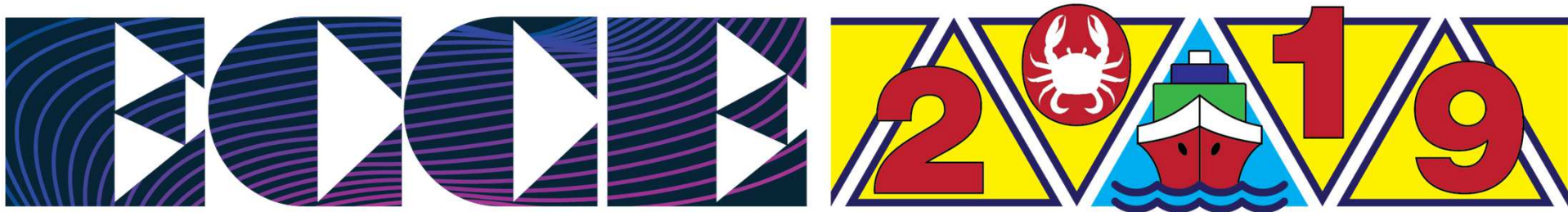
4.- New Business

Submission of papers to Transactions on Industry Applications

- The authors should ask for an invitation email to **IDC Publications Chair Mahesh Swamy (mswamy@ieee.org)**
Deadline: one year after the conference

4.- New Business

Presentation of ECCE 2019



IEEE ENERGY CONVERSION CONGRESS & EXPO BALTIMORE, MD ▲ SEPT. 29 - OCT. 3

Baltimore Convention Center



Hilton Baltimore (HQ Hotel)



Yan-Fei Liu

General Chair
September 2018



Baltimore, Maryland, U.S.A



Baltimore Praises

- Architectural Digest declares Baltimore “[One of the Most Exciting U.S. Cities Right Now](#)”
- Travel + Leisure calls Baltimore the “[Coolest City on the East Coast](#)”
- #15 on The New York Times’ “[52 Places to Go in 2018](#)” list
- Coastal Living lists Baltimore as one of “[America’s 5 Hottest Food Cities on the Coast](#)”
- AFAR Magazine names Baltimore #1 in a list of “[Four U.S. Destinations Upping Their Games](#)”

ECCE 2019 Organizing Committee

General Chair: Yan-Fei Liu

<p>TPC Chairs Brad Lehman Bulent Sarlioglu Yilmaz Sozer Jian Sun</p>	<p>Exhibition Chairs David Morrison Grant Pitel</p>	<p>Plenary Session Chair Issa Batarseh</p>	<p>Finance Chair Mark Scott</p>
<p>Publicity / Social Media Chair Vanessa Broccoli Dong Dong</p>	<p>Special Session / Town Hall Chair Peter Wung</p>	<p>Industrial Partnership Chair Mohammed Agamy</p>	<p>Publication chair Jin Ye Xu She</p>
<p>Awards Chair Alireza Khaligh Tiefu Zhao</p>	<p>Tutorial Chair Sudip K. Mazumder Luca Corradini</p>	<p>Local Arrangement Chair Qiang Li Jennifer Vining</p>	<p>Women in Engineering (WIE) Chair Katherine Kim Jin Ye</p>
<p>Webmaster Chair Jennifer Vining</p>	<p>Student Activities Chair Dong Dong</p>	<p>Conference Management, Smith Bucklin David Weil (VP); Abby Bailey (Lead); Nataki Hemmings; John Heiser; Jasmine Guerra; Laura Devinsky</p>	

Important Dates

- Digest Submission
 - January 15, 2019: digest submission
 - May 1: Notification and June 30: final paper upload
- Tutorial Proposal Submission
 - February 17, 2019: proposal submission
 - March 27: Notification and June 30: Full tutorial due
- Special Sessions
 - March 31, 2019: Proposal submission
 - Notification

Help Wanted

- **Paper related**
 - Submit your excellent work !
 - Topic chairs
 - Reviewers
- **Conference related**
 - Proposal for special session, town hall, tutorials
 - Suggestions for the exhibitors (we will follow up)
 - Local arrangement
 - Travel grant application

Conference Papers

- **Energy Conversion Systems and Applications**
 - Renewable and alternative energy
 - Smart grids, micro-grids, and utility applications
 - Electrical energy storage
 - Energy conversion for Information Technology and communication systems
 - Energy harvesting
 - Energy efficiency for residential, commercial and industrial applications
 - Wireless power transfer (WPT)
 - Lighting applications and displays
 - Transportation electrification
 - High power/voltage power conversion
 - High voltage isolation and lightning strike protection

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ECCE is pivotal international event on energy conversion

Special Sessions

- Standard development for power electronics systems / products
- Power Supply on Chip (PwrSoC) and related technology
- LED lighting
- DC Microgrid: trend, requirement, and technologies
- New materials for components and/or systems in electrical
- Electrical applications in the oil & gas and mining sectors
- Technologies for large, cycle-efficient and cycle-intensive energy storage
- Energy efficiency modeling
- Reliability, diagnostics and prognostics of components and systems.
- Thermal management, advanced cooling technologies

Tutorial Proposal

- Energy Conversion Systems and Applications
 - Renewable, smart grid, storage
 - Motor drives, transportation
 - Wireless power transfer
- Component, Converter and Subsystem Technologies
 - Active and passive devices, application of the devices
 - Topologies, modeling and control
 - EMI and thermal

ECCE 2019 Call for Papers

Tutorials



IEEE ENERGY CONVERSION CONGRESS & EXPO BALTIMORE, MD ▲ SEPT. 29 - OCT. 3

IMPORTANT DATES

February 17, 2019
Submission of completed one-page Tutorial Proposal Form

March 27, 2019
Notification of acceptance.

June 30, 2019
Full Tutorial materials due

Call for Tutorials



General Chair
Yan-Fei Liu
Queen's University, Canada

ECCE 2019 Technical Program Co-Chairs

Brad Lehman
Northwestern University, USA

Bulent Sarlioglu
University of Wisconsin-Madison, USA

Yilmaz Sozer
University of Akron, USA

Jian Sun
Rensselaer Polytechnic Institute, USA

The Eleventh Annual IEEE Energy Conversion Congress and Exposition (ECCE 2019) will be held in Baltimore, Maryland, USA on September 29 - October 3, 2019. The conference will bring together practicing engineers, researchers and other professionals for interactive discussions on the latest advances in various areas related to energy conversion. ECCE has grown to become the foremost technical conference and exposition for people looking for energy conversion solutions, solutions that are timely, practical, customer focused, market sensitive, and cost effective. Engineers from throughout the energy conversion industry's broad spectrum come to ECCE specifically to take advantage of the concentrated brain trust assembled annually in one very special location to do business in a convivial and innovative atmosphere, a perfect blend of state-of-the-art technical prowess and commercial opportunities under one roof.

The ECCE organizing committee invites proposals for half-day tutorials to be presented on Sunday, September 29, 2019. The organizing committee is particularly interested in tutorials that are of value to the practicing engineer with an emphasis on solutions to practical problems. Tutorials are solicited on any subject pertaining to the scope of the conference that includes, but is not limited to, the major topics listed below.

Energy Conversion Systems and Applications

- Renewable and alternative energy
- Smart grids, micro-grids, and utility applications
- Electrical energy storage
- Energy conversion for information technology and communication systems
- Energy harvesting
- Energy efficiency for residential, commercial and industrial applications
- Wireless power transfer (WPT)
- Lighting applications and displays
- Transportation electrification
- High power/voltage power conversion
- High voltage isolation and lightning strike protection

Component, Converter and Subsystem Technologies

- Power electronic devices (Si and wide band-gap) and applications
- Power conversion topologies, modulation, and control
- Modeling and control of components, converters and systems
- Rotating/linear electro-mechanical devices and drive systems
- Passive components and materials
- Power electronic packaging, integration, and advanced manufacturing
- Reliability, diagnostics, prognostics, and health management
- EMI and EMC
- Thermal management, advanced cooling technologies

Tutorials accepted for presentation will receive one conference registration together with an honorarium of \$1000. Note that publication of a technical paper at the conference will still require a full paid registration.

Tutorial Proposal Submission Guidelines: Tutorial proposals should be submitted as a digest summarizing the content of the tutorial. Please follow the attached tutorial proposal form as the tutorial submission guideline. Questions can be directed to the TPC Chairs via email at ecce2019pc@gmail.com.

www.ieee-ecce.org/2019

Baltimore, MD, USA – September 29 – October 3, 2019

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IEEE ENERGY CONVERSION CONGRESS & EXPO BALTIMORE, MD ▲ SEPT. 29 - OCT. 3

IMPORTANT DATES

January 15, 2019
Digest submission

May 1, 2019
Author notification

June 30, 2019
Final papers with IEEE copyright forms

Call for Papers



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The Eleventh Annual IEEE Energy Conversion Congress and Exposition (ECCE 2019) will be held in Baltimore, Maryland, USA on September 29 - October 3, 2019. ECCE is a pivotal international event on energy conversion. ECCE 2019 will feature both industry-driven and application-oriented technical sessions, as well as expositions. The conference will bring together practicing engineers, researchers and other professionals for interactive and multidisciplinary discussions on the latest advances in various areas related to energy conversion.

Technical papers are solicited on any subject pertaining to the scope of the conference that includes, but is not limited to, the following major topics:

Energy Conversion Systems and Applications

- Renewable and alternative energy
- Smart grids, micro-grids, and utility applications
- Electrical energy storage
- Energy conversion for information technology and communication systems
- Energy harvesting
- Energy efficiency for residential, commercial and industrial applications
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Component, Converter and Subsystem Technologies

- Power electronic devices (Si and wide band-gap) and applications
- Power conversion topologies, modulation, and control
- Modeling and control of components, converters and systems
- Rotating/linear electro-mechanical devices and drive systems
- Passive components and materials
- Power electronic packaging, integration, and advanced manufacturing
- Reliability, diagnostics, prognostics, and health management
- EMI and EMC
- Thermal management, advanced cooling technologies

Digests Submission: Prospective authors are requested to submit a digest no longer than five (5) pages, single column, single spaced, that summarizes the proposed paper. The digest should include key equations, figures, tables and references as appropriate, but no author names or affiliations. **Digests not conforming to these requirements will be rejected without review.** The digests must clearly state the objectives of the work, its significance in advancing the state of the art, and the methods and specific results in sufficient detail. All digests will go through a double-blind peer review process to ensure confidentiality and fair review. Please refer to the conference website for a detailed list of technical topics and the digest submission method. Questions can be directed to the TPC Chairs via email at ecce2019pc@gmail.com.

www.ieee-ecce.org/2019

Baltimore, MD, USA – September 29 – October 3, 2019

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Special Sessions



IEEE ENERGY CONVERSION CONGRESS & EXPO BALTIMORE, MD ▲ SEPT. 29 - OCT. 3

IMPORTANT DATES

March 31, 2019
Proposal submissions deadline

May 1, 2019
Notification of session acceptance

Call for Special Sessions Organizers



General Chair
Yan-Fei Liu
Queen's University, Canada

ECCE 2019 Technical Program Co-Chairs

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The ECCE organizing committee invites organizers interested in organizing Special Sessions. Such sessions consist of oral presentations only, without written papers and are strongly oriented towards the latest industrial interest, as well as the latest collaboration opportunities between industry and academia. Presentations may be of a more commercial nature than those reported to the papers in the standard technical session, and the organization of the sessions are more malleable and could be in the form of panel discussions. Audience participation and open source brainstorming session on focused topics are welcomed. Papers presented in special sessions are not subject to peer review and will not be made available in the conference proceedings. Presenters are encouraged to distribute their presentations through the conference mobile app.

Presentations are solicited on any subject pertaining to the scope of the conference described in its Call for Papers (obtainable from <http://ecceconferences.org/2019>). Those that will address the following aspects of growing interest and innovation are encouraged:

- Standard development for power electronics systems / products
- Power Supply on Chip (PSoC) and related technology
- High Efficiency, flicker free LED light fixtures
- DC Microgrid: trend, requirement, and technologies
- Innovative materials for improved components and/or systems in electrical and electromechanical energy conversion
- Components and systems for electrical applications in the oil & gas and mining sectors
- Technologies and systems for large, cycle-efficient and cycle-intensive energy storage
- Modeling of materials oriented to improve the estimation of the energy efficiency in the components and systems using them.
- Reliability, diagnostics and prognostics of components and modular systems.
- Thermal management, advanced cooling technologies

Proposal Submission Guidelines: Special Session organizers are requested to submit a maximum one-page proposal summarizing the proposed Special Session with 4 or 8 presentations. The proposal should contain the session title, session organizer, title of each presentation, presenter for each presentation (with a short biography) and a summary of each presentation. Please submit the proposal directly to ECCE 2019 Technical Program Committee Chairs via email at ecce2019pc@gmail.com.

www.ieee-ecce.org/2019

Baltimore, MD, USA – September 29 – October 3, 2019

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Industrial Drives Committee Meeting
September 25th, 2018
Portland, Or



See you in Baltimore!



IEEE ENERGY CONVERSION CONGRESS & EXPO BALTIMORE, MD ▲ SEPT. 29 - OCT. 3

<http://www.ieee-ecce.org/2019/>

4.- New Business

Presentation of EPE ECCE-Europe 2019

Pascal Mousion

General Chair



Industrial Drives Committee Meeting
September 25th, 2018
Portland, Or



September 2-6, 2019 | Genova, Italy

Genova (Genoa), Italy

September 2-6, 2019

Receipt of synopses (3-5 pages): 14 November 2018

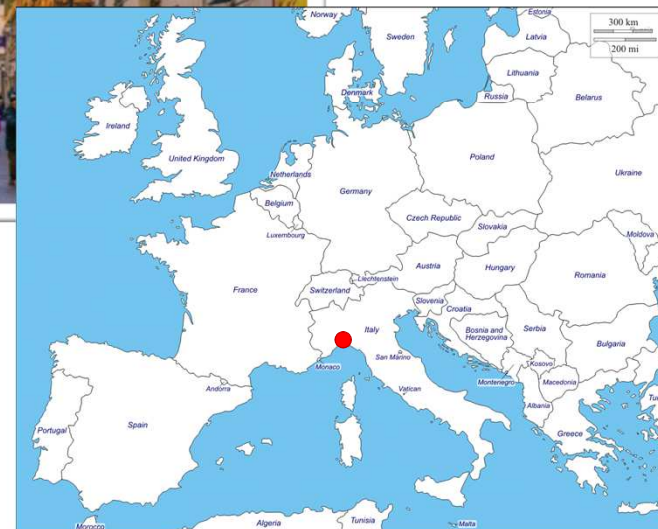


<http://www.epe2019.com/>

EPE ECCE-Europe 2019



Genoa has an international airport that accepts flights from all over Europe.



4.- New Business

Presentation of SDEMPED 2019

Luca Zarri



Toulouse, France

August 27-30, 2019

Special session and tutorial proposals : December 16, 2018

Provisional full paper and tutorials proposals : January 27, 2019



<http://inpact.inp-toulouse.fr/SDEMPED2019/welcome.html>

SDEMPED 2019



4.- New Business

Presentation of IEMDC 2019

Fernando Briz



International Electric Machines & Drives Conference

May 12-15, 2019 • Westin San Diego • San Diego, CA

Website IEMDC-Conf.org

HOME REGISTRATION AUTHORS PROGRAM HOTEL & TRAVEL EXHIBITS & SPONSORSHIP CONTACT US

SAVE THE DATE!

MAY 12-15, 2019 | WESTIN SAN DIEGO GASLAMP QUARTER



Important Dates

- **December 2, 2018** | Submission of five (5) page digests
- **February 17, 2019** | Notification of the review results
- **March 31, 2019** | Final submission of accepted papers
- **March 31, 2019** | Early registration at reduced rates ends

- Refer to call for papers regarding more information about regular and special sessions and tutorials
(<http://iemdc-conference.org/Authors/Call-for-Papers>)



■ Join IEMDC on May 12-15, 2019 at the Westin San Diego Gaslamp Quarter Hotel in San Diego, California (Great location, close to various attractions)



Air And Space Museum

- *“Imagine a reception at one of the most exceptional settings in San Diego, the San Diego Air & Space Museum. The atrium under the stars, art deco architecture and historic aircraft set an unforgettable scene for your event.”*



Spousal & Group Activities



San Diego Zoo



Kayaking



Whale Watching



Wine Tasting

Hornblower Cruises and Events



See you in San Diego!



May 12-15, 2019



4.- New Business

- Recruit Topic chairs & Session chairs for ECCE 2019
- Recruit Topic chairs for IEMDC2019
- Recruit Topic chairs for APEC (in perspective)



Industrial Drives Committee Meeting
September 25th, 2018
Portland, Or



5.- Adjournment