



IAS Industrial Drives Committee (IDC) Meeting

Tuesday, October 1, 2019

6:00 pm - 7:00 pm

Room 338





Agenda

- Introduction of members and recognition of new members and IEEE fellows
- 2. Old business/reports
 - Approval of 2018 meeting minutes
 - Vice-chair, Paper Review Transactions papers
 - Vice-chair, Programs Report on ECCE 2019
 - Vice-chair, Standards Subcommittee
 - Report on SLED 2019, ACEMP-OPTIM 2019, SDEMPED 2019
- 3. Awards and recognitions
 - Conference awards
 - Awards Subcommittee 2019
 - Associate Editors
- 4. New business
 - Nomination of 2020 IDC slate of officers

- Request to recruit new Associate Editors
- Submission of papers to Transactions on Industry Applications
- New Open Access Journal
- Future conferences
 - ECCE 2020, ICEM 2020, SLED 2020
- •Recruit topic chairs & session chairs for ECCE 2020
- 5. Adjournment





1.- Introduction of Members

Recognition of new members and IEEE Fellows





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2.- Old business/reports

- Approval of 2018 meeting minutes
- Mahesh Swamy, Paper Review Transactions papers
- Luca Zarri, Programs Report on ECCE 2019
- Gianmario Pellegrino Report on SLED 2019
- Bulent Sarlioglu Report on ACEMP-OPTIM-2019
- Luca Zarri Report on SDEMPED 2019





2.- Old business/reports

Approval of 2018 meeting minutes

Written by Jul-Ki Seok, announced to IDC members to download it at IDC website (http://site.ieee.org/ias-idc/resources/) in Nov. 1st 2018.

Sent once again to IDC members on Sept. 4th 2019.





2.- Old business/reports

Vice-Chair Paper Review Report on Transactions papers

Mahesh Swamy

Vice-Chair Paper Review Report on Transactions papers

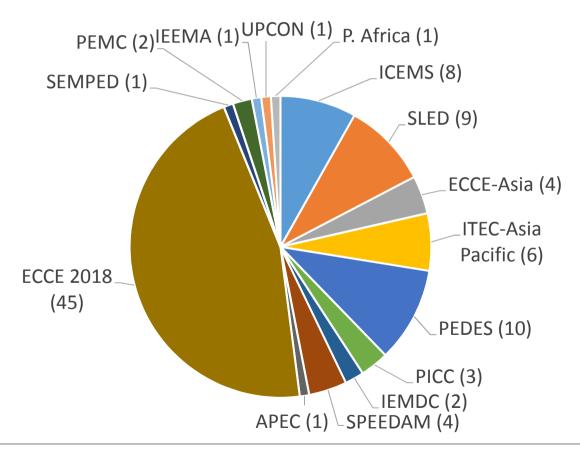


- Papers Submitted based on Conference
- Papers Accepted based on Conference
- Accept to Reject Ratios
- Papers Received based on Country of Origin of First Author
- Papers Accepted based on Country of Origin of First Author
- Time Statistics

Papers Submitted based on Conference



Total Paper Received (Original submission) = 101 Expired+Withdrawn= 2+1=3 Papers accounted for in Pie Chart= 98

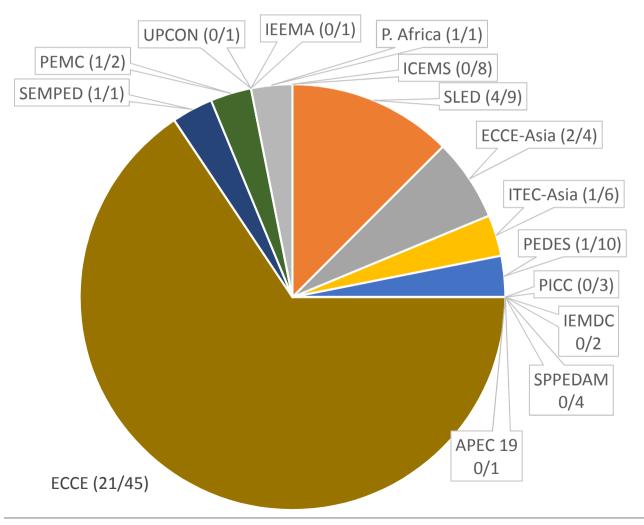


- Original submission starts from October 1 2018
- Authors of 2 papers did not submit revisions - time allotted has since expired. 1 paper was withdrawn after first review

Papers Accepted based on Conference



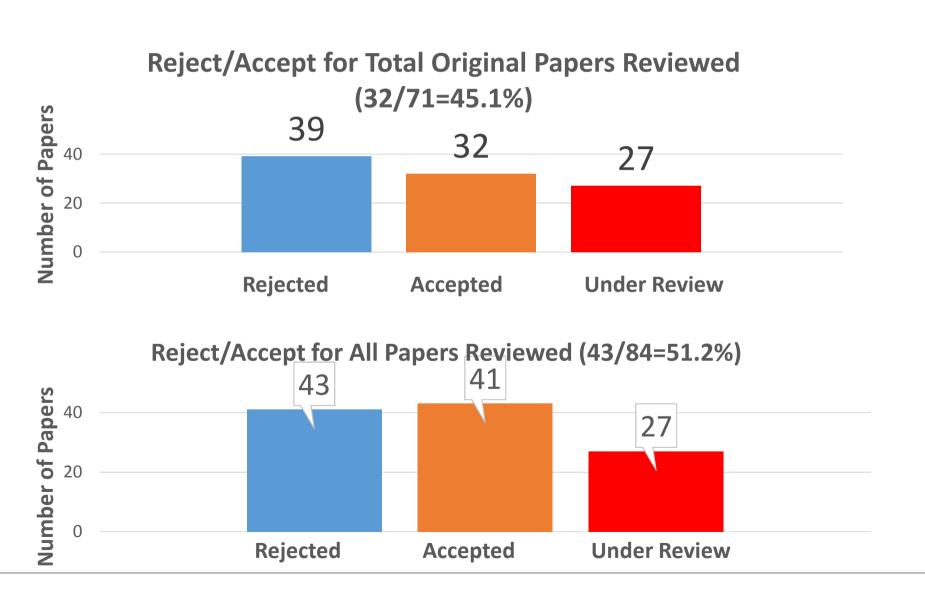
All Accepted Papers (32) by Conference



- Maximum papers submitted was from ECCE. Maximum acceptance is also from ECCE
- Asian conferences did not fare well
- IEMDC participation is low

Accept/Reject Ratio

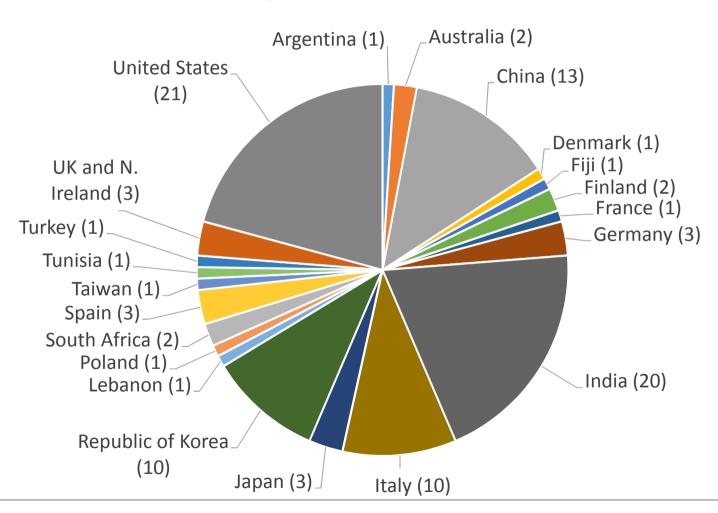




Papers Received based on Country of Origin



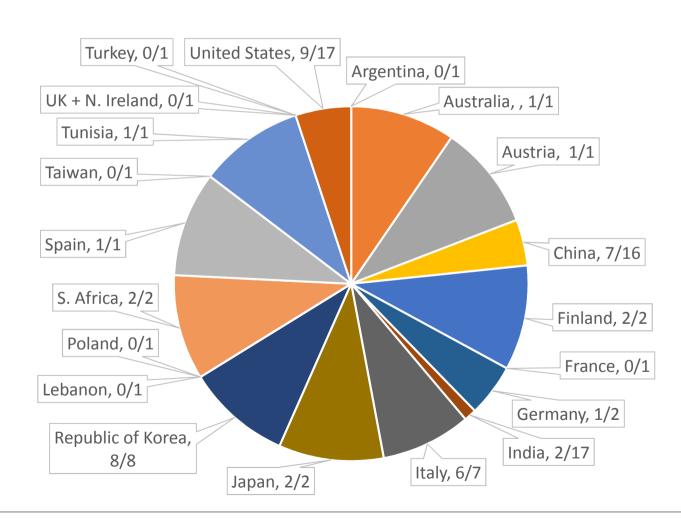
Total Paper Received (Original submission)= 101 Expired + Withdrawn= 3



Papers Accepted based on Country of Origin



Manuscript Accepted by Country, Total decided = 84 Accepted= 43, Rejected= 41, Acceptance Ratio= 51.2%

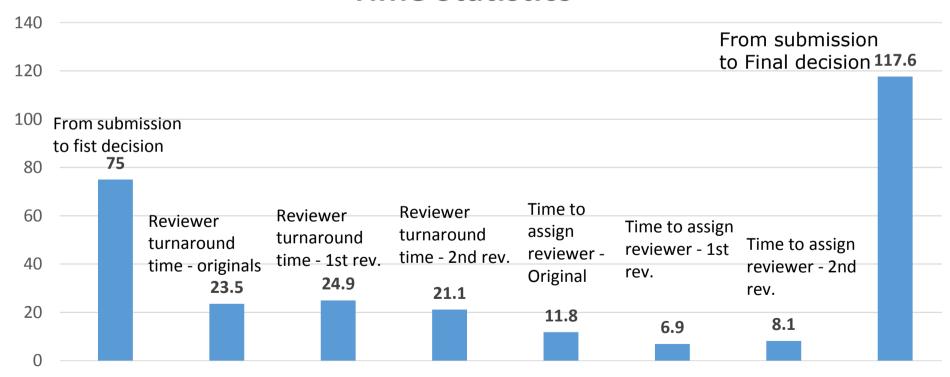






Time Statistics

Time Statistics







2.- Old business/reports

Programs – Report on ECCE 2019

Luca Zarri





ECCE 2019 Technical Program Committee Members, Electric Drives

Vice-chairs

Luca Zarri

Antonio J. Marques Cardoso

Topic Chairs (18)

- Di Pan
- Michele Mengoni
- Prerit Pramod
- Xu Wei
- David Diaz Reigosa
- Zhe Zhang
- Juan M. Guerrero
- Giacomo Scelba
- Shafiq Ahmed Odhano

- Shih-Chin Yang
- Hao Lei
- Lijun He
- Roberto Petrella
- Michael Harke
- Alberto Bellini
- Pinjia Zhang
- Arijit Banerjee
- Gabriele Rizzoli

Thank you to all Topic Chairs!





ECCE 2019 Technical Program Committee Members, Electric Drives

Alberto Bellini

- Antonio J. Marques Cardoso
- Arijit Banerjee
- Bulent Sarlioglu
- David Diaz Reigosa
- Di Pan
- Fernando Briz
- Giacomo Scelba
- Giulio de Donato
- Iustin Radu Bojoi
- Jiangbiao He
- Juan Manuel Guerrero
- Lei Hao

Session Chairs (34)

- Lijun He
- Luca Zarri
- Mahesh Swamy
- Mario Pacas
- Marko Hinkkanen
- Michael Harke
- Milijana Odavic
- Shih-Chin Yang
- Shafiq Ahmed Odano
- Thomas Jahns
- Thomas Wolbank
- Pinjia Zhang
- Prerit Pramod
- Ranga Tallam

- Roberto Petrella
- Volker Staudt
- Wei Xu
- Wu Lijian
- Xuechao Wang
- Yukai Wang
- Zhe Zhang

Thank you to all Session Chairs!





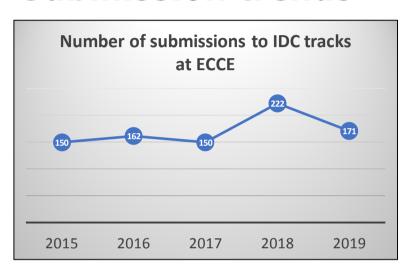
Track H: Electric Drives (171 submissions)

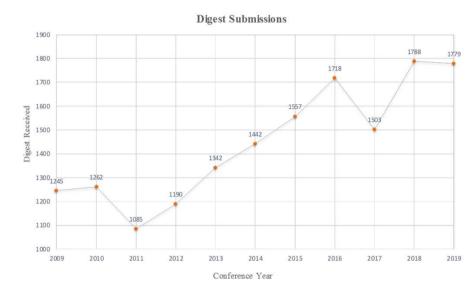
- 1. General (9)
- 2. Induction motor drives (13)
- 3. PM and IPM motor drives (31)
- 4. Control of electric drives (38)
- 5. Drives applications (4)
- 6. Sensor-less drives (22)
- 7. Sensors and transducers (4)
- 8. Diagnosis, reliability and EMI (10)
- 9. High speeds and direct drives (5)
- 10. Energy efficient motor drives (9)
- 11. Medium voltage drives and high-power drives (4)
- 12. New technologies and integrated drives (5)
- 13. Drives for aerospace and traction applications (10)
- 14. Electrical drives for wind & other renewable integration (6)
- 15. Drive-utility interface (1)





Submission trends





The number of digests received is almost constant from 2015 to 2019 (about 10% of the total), although there was a peak in 2018.





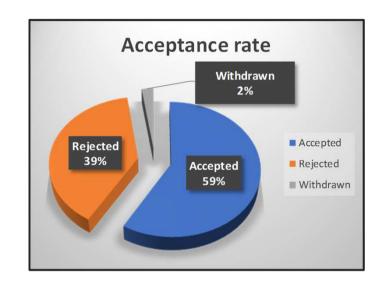
Overall Statistics (2019)

Number of digests: 171

Papers withdrawn: 4

Papers accepted: 100

Papers rejected: 67



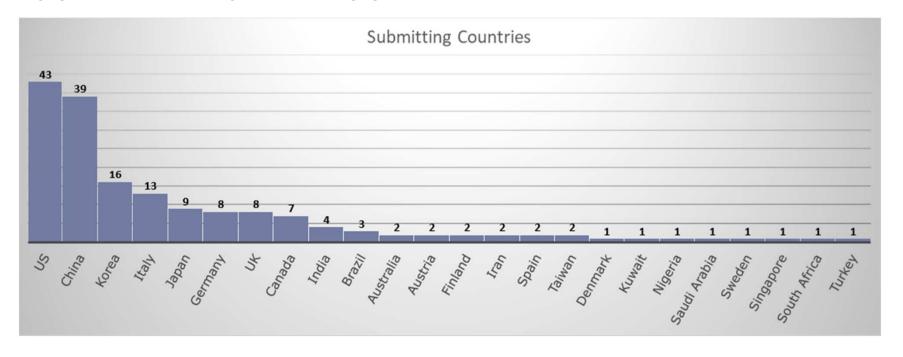
- The acceptance ratio is 0.598%.
- A total of 56 papers were distributed into 13 oral sessions.
- The papers were selected purely on merit of abstracts.
- The average number of reviews per paper was around 4.5.
- Memorial sessions for Prof. Bob Lorenz (Mon.-Tue.) and Prof. Manfred Depenbrock (Wed.)





Submitting countries (first author)

- A total of 24 different countries are involved
- United States (43) and China (66) submitted about 47 % of the total number of digests, followed by South Korea (16), Italy (13), Japan (9) and Germany and UK (7).

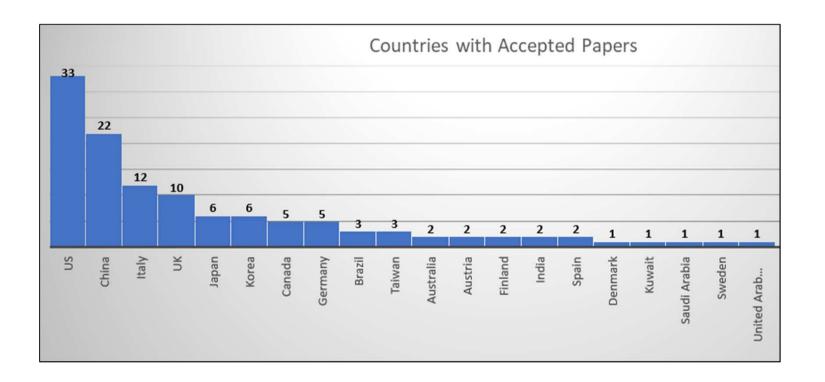






Distribution of the accepted papers based on the country of the submitting author

About 55 percent of the accepted papers come from United States (33) and China (22), followed by Italy (12), UK (13), Japan and Korea (6).

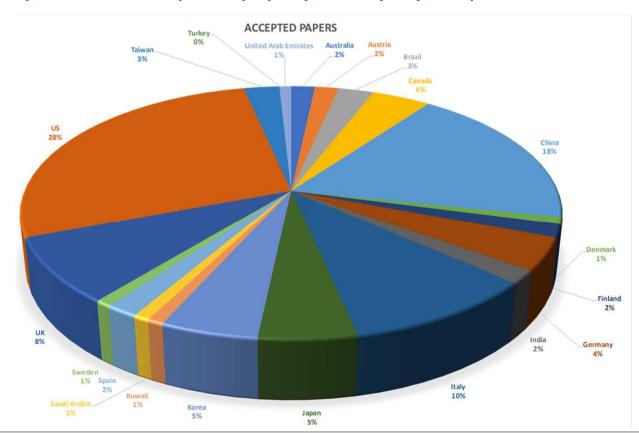






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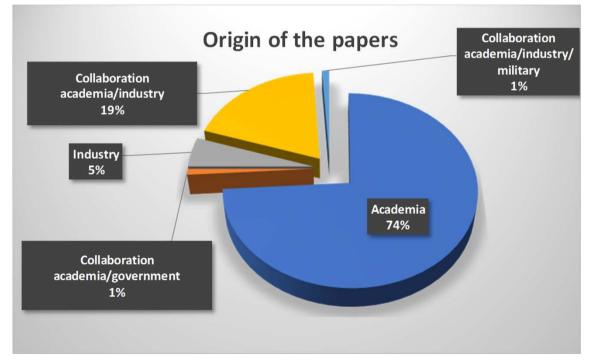






Relevant Statistics

- Number of papers involving a student: 80 (107 in 2018 and 50 in 2017)
- Number of papers with industrial involvement 24 (32 in 2018 and 13 in 2017)







2.- Old business/reports

Vice-Chair Standards Subcommittee

Kevin Lee





2.- Old business/reports

Programs – Report on SLED 2019

Gianmario (Jimmy) Pellegrino





2.- Old business/reports

Programs - Report on ACEMP-OPTIM 2019

Bulent Sarlioglu





2.- Old business/reports

Programs - Report on SDEMPED 2019

Luca Zarri



Industrial Drives Committee Meeting

October 1st, 2019 Baltimore, Md























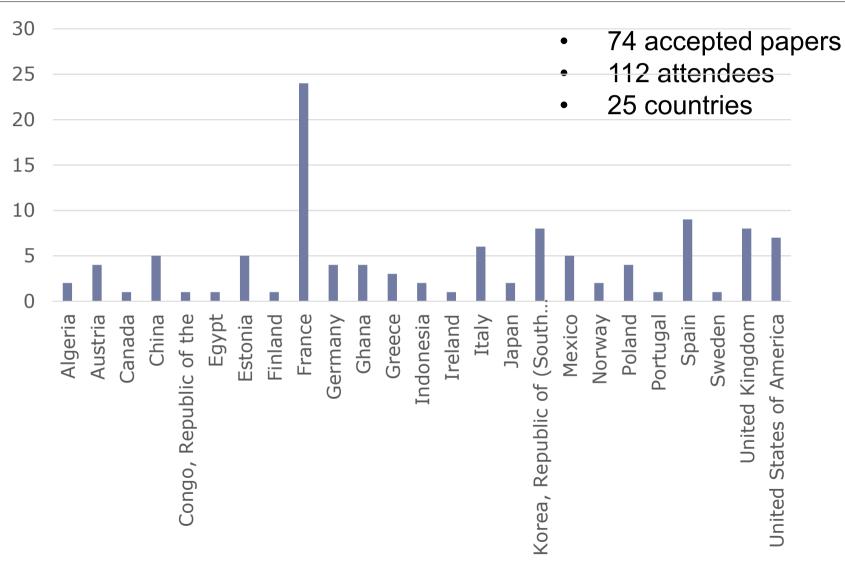




Industrial Drives Committee Meeting

October 1st, 2019 Baltimore, Md









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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 March were considered (12 papers).

Review process

Six criteria: Readability, Use of Figures and Graphics, Education, Broad Interest, Significance, Impact.

Each criteria is scored from 0 to 5

According to the above criteria, each reviewer was requested to define his preferred ranking list of the 12 papers

A score was given to each paper according to its position in each ranking list.

The scores resulting from the reviewers' opinions were summed to find the final score of each paper.



Jun Koo Kang

Industrial Drives Committee Meeting October 1st, 2019 Baltimore, Md



3.- Awards and Recognitions

Awards Subcommittee

Fabio Giulii Capponi (Chair) Sapienza - University of Rome

Richard Lukaszewski Allen-Bradley

Ion Boldea

University Politechnica Timisoara

LG Electronics





Third Prize

Title: Torque Ripple Minimization in Six-Step Modulated PMSM Drives via Fast DC Bus Dynamics

Authors: Hung-Yen, Ou Yang, Robert D. Lorenz







Second Prize

Title: Restart Strategy for Synchronous Reluctance Machine driving a High Inertia Load

Authors: Kibok Lee, Sara Ahmed, Srdjan M. Lukic





First Prize

Title: Three-phase Inverter Control for AC Motor Drives with Small DC-Link Capacitor fed by Single-phase Diode Rectifier

Authors: ByungGil Kwak, Jul-Ki Seok





Prize Paper Awards 2020

The papers that will be **submitted** to IEEE Trans. on Industry Applications by the end of November will be considered for the prize paper awards.





3.- Awards and Recognitions

Associate Editors

- Giacomo Scelba

David Diaz

Roberto Petrella

Pinjia Zhang

Long Wu

Yue Zhao

Marcello Pucci

- Kevin Lee

Ramakrishnan Raja

Davide Barater

Thank you to all Associate Editors for your help!





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4.- New Business

Nomination of 2020 IDC slate of officers

- Chair: Mahesh Swamy, Yaskawa America Inc., USA
- Vice Chair Papers: Luca Zarri, University of Bologna, Italy
- Vice Chair Programs: Jul-Ki Seok, Yeungnam University, Korea
- Secretary: Kevin Lee, Eaton Corporation, USA
- Past Chair: Fernando Briz, University of Oviedo, Spain





Kevin Lee (M'90–SM'05) received Bachelor of Science from Tsinghua University, Beijing, China, in 1986, M.S. from Rensselaer Polytechnic Institute, Troy, NY, in 1990, and Ph.D. from WEMPEC, University of Wisconsin, Madison, USA in 2008, all in electrical engineering.

In 1998, he joined Eaton Corporation, where he is a Chief Engineer in Industrial Control Division, responsible for technology and product development in the fields of power quality, energy efficiency, adjustable speed drives, power distribution system architecture and control systems. Prior to joining Eaton, he was Engineering Manager at Sola/Hevi-Duty Electric, a Unit of General Signal, now Emerson Industrial Automation between 1990 and 1998.

Dr. Lee received Eaton Engineer of the Year Award in 2013 and the IEEE Industry Applications Magazine First Prize Paper Award in 2009. He is a Registered Professional Engineer in the State of Wisconsin since 1995, a certified Design for Six Sigma Black Belt, a holder of 51 U.S. and international patents, with 63 IEEE conference and Transaction papers.

Currently, he serves as IDC Standards Sub-Committee Chair and IDC Associate Editor.





4.- New Business

Associate Editors

Looking for candidates

Send an email to IDC Publications Chair attaching your CV

Mahesh Swamy (ending Dec. 31 2019) - mswamy@ieee.org

Luca Zarri (starting Jan. 1 2020) - luca.zarri@ieee.org





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 (ending Dec. 31 2019) - mswamy@ieee.org

Luca Zarri (starting Jan. 1 2020) - luca.zarri@ieee.org

Deadline: one year after an IEEE IAS sponsored conference

The authors should highlight the changes in the journal version of the paper.





4.- New Business

Presentation of New IEEE Open Access Journal of Industry Applications

Pericle Zanchetta / Andy Knight





4.- New Business

Presentation of ECCE 2020





4.- New Business

Recruit Topic chairs & Session chairs for ECCE 2020





4.- New Business

Presentation of ICEM 2020

Luca Zarri





4.- New Business

Presentation of SLED 2020

Bulent Sarlioglu





5.- Adjournment