

# Transportation Systems Committee (TSC) Meeting

## ECCE 2019

Baltimore, Maryland  
September 29 - October 3, 2019

# Agenda

- Introduction
- 2018-2019 Committee Officers
- Committee Activities
- Transactions Paper Review
- Prize Papers, ECCE 2018
- Conference Activities
- TEC Update
- ECCE 2020
- Committee Update
- Nomination of 2020-2021 Officers

# Committee Officers – 2018-2019

## **Chair:**

Dr. Mohammad Islam  
Halla Mechatronics

## **Vice Chair (Papers):**

Dr. Bulent Sarlioglu  
University of Wisconsin-Madison

## **Vice Chair (Conferences):**

Dr. Mohammad Anwar  
General Motors

## **Secretary:**

Dr. Mithat Kisacikoglu  
University of Alabama

## **Past Chair:**

Dr. Burak Ozpenici  
Oakridge National Laboratory

# Transaction Paper Review

- TSC started reviewing papers for IA transactions/magazines since 2012
- TCPRC: Dr. Bulent Sarlioglu – Vice Chair (Papers)
- Associate Editors:
  - Dr. Bilal Akin, University of Texas, Dallas, TX
  - Dr. Mithat Kisacikoglu, University of Alabama, Tuscaloosa, AL
  - Dr. Veda Galigekere, Oak Ridge National Lab, TN
  - Dr. Rakib Islam, Dura Automotive, MI
  - Dr. Yingjie Li, Hyperloop One, CA
  - Dr. Jason Pries, Oak Ridge National Lab, TN
- Decision is based on at least 2 reviews
- Reviewers/members database is evolving

# Transaction Paper Review

## Transactions Papers (01/01/2019-Present):

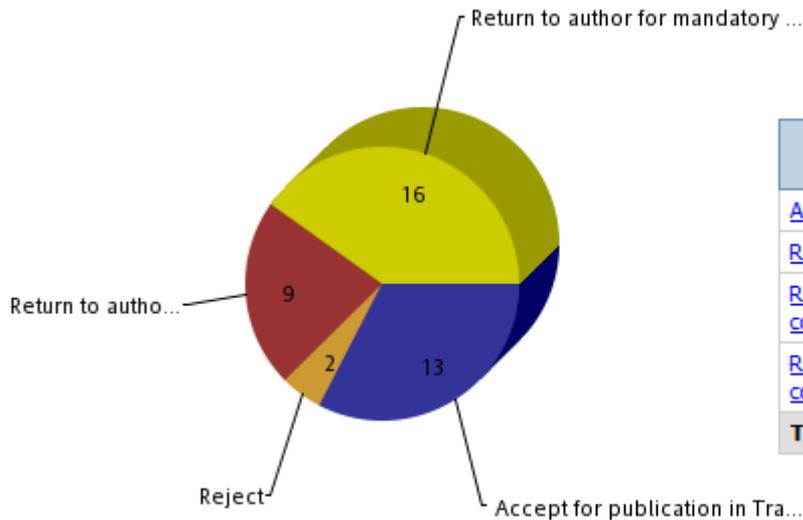
- 48 Manuscripts submitted for review
- 13 Accepted for publication
- 25 Returned for mandatory revisions
- 2 Rejected
- 8 Under review process

# Transaction Paper Review

Decision Received (01/01/2019 - Present)

Decision

- Accept for publication in Transactions
- Reject
- Return to author for mandatory revisions (r...
- Return to author for mandatory revisions (t...



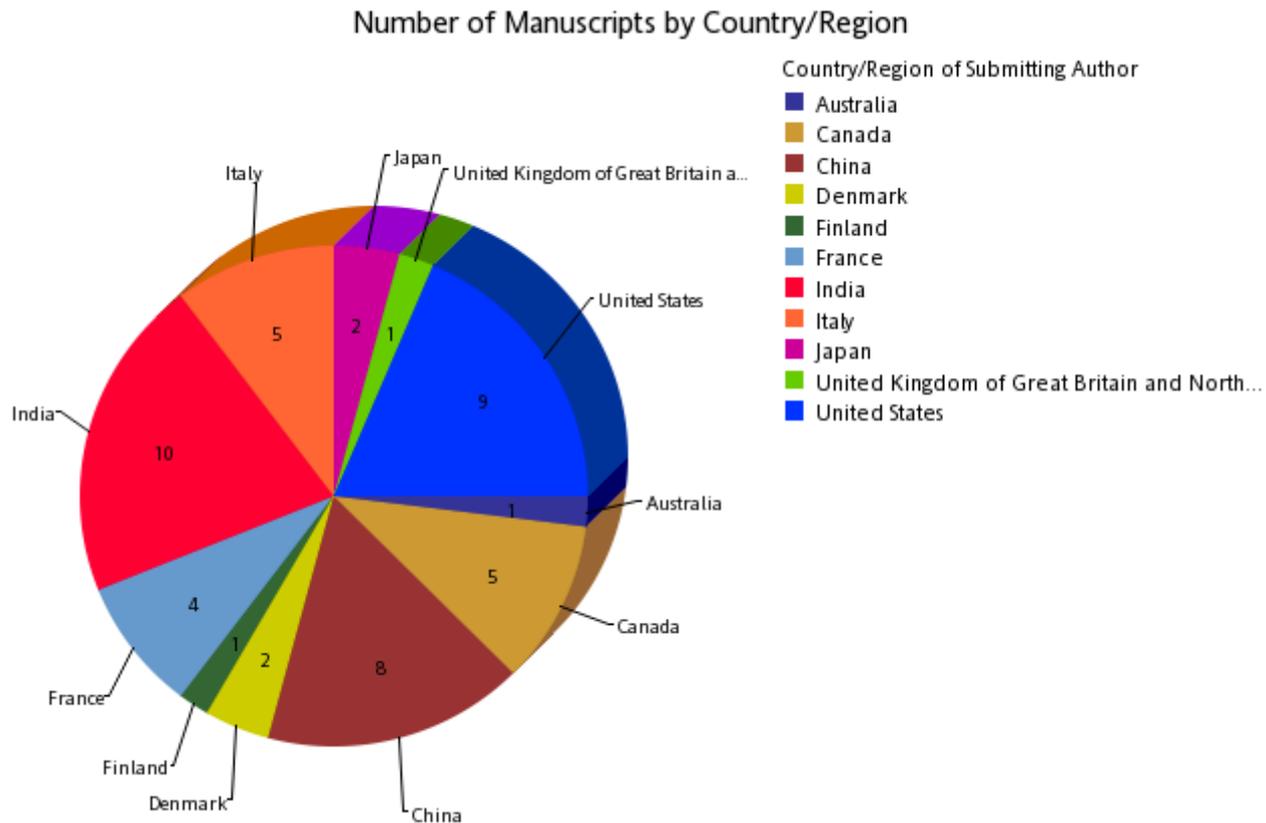
Decision	# Manuscripts	Percentage
<a href="#">Accept for publication in Transactions</a>	13	32.50%
<a href="#">Reject</a>	2	5.00%
<a href="#">Return to author for mandatory revisions (rto address reviewer comments)</a>	9	22.50%
<a href="#">Return to author for mandatory revisions (to address reviewer comments)</a>	16	40.00%
<b>Total:</b>	<b>40</b>	<b>100.00%</b>

Note: 8 Papers are under review process

# Manuscripts

# Transaction Paper Review

Global Submission (01/01/2019 - Present)



# AE Appreciation

- TCPRC: Dr. Bulent Sarlioglu
  - Associate Editors:
    - Dr. Bilal Akin, University of Texas, Dallas, TX
    - Dr. Mithat Kisacikoglu, University of Alabama, Tuscaloosa, AL
    - Dr. Veda Galigekere, ORNL, TN
    - Dr. Rakib Islam, Dura Automotive, MI
    - Dr. Yingjie Li, Hyperloop One, CA
    - Dr. Jason Pries, Oak Ridge National Lab, TN

# Prize Paper Award

# TSC Prize Paper Award - 2019

## **Award Committee:**

Chair – Bulent Sarlioglu

## **Committee Members:**

- Manuel Arias Perez de Azpeitia
- Wencong Su
- Jin Ye
- Jason Pries
- Mahesh Krishnamurthy

The award committee evaluated 8 top ranked digests from ECCE 2018 Track D - Transportation System Applications

# TSC Prize Paper Award - 2019

1<sup>st</sup> Prize

**Title:**

A Litz Wire Based Novel Passive Shield Design for Wireless Charging System for Electric Vehicle

**Authors:**

Mostak Mohammad, Haque Moinul and Choi Seungdeog

# TSC Prize Paper Award - 2019

## 2<sup>nd</sup> Prize

### Title:

Lithium-ion Battery Rate-of-Degradation Modeling for Real-Time Battery Degradation Control during EV Drive Cycle

### Authors:

Ruxiu Zhao, Robert Lorenz and Thomas Jahns

# TSC Prize Paper Award - 2019

## 3<sup>rd</sup> Prize

### Title:

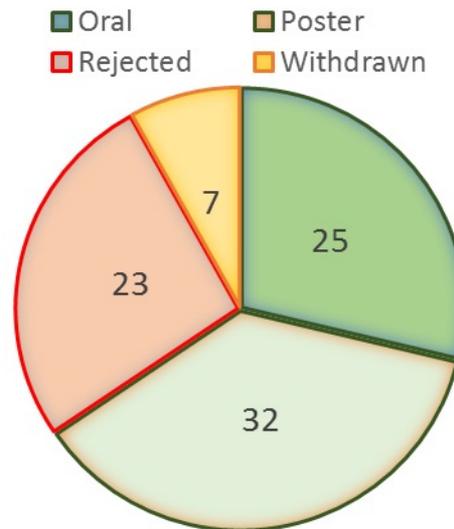
Stability Analysis of the Electrical Power Generation System for a More Electric Aircraft

### Authors:

Sumeet Singh Thakur, Heo Peng Gabriel Ooi, Souvik Dasgupta, Joseph Kiran Banda, Mark Husband and Changyun Wen

# ECCE 2019 – Transportation Applications

- 87 digest submitted
- 12% less digest submitted this year (compared to 2018)
- Acceptance rate 66% (10% lower than 2018)
- 25 papers are distributed in 6 oral sessions
- 32 papers are presented in poster sessions



# ECCE 2019 – Transportation Applications

Oral (Session Name)	# Counts
Battery and Charging Infrastructure	4
Applications of Electric Traction / Propulsion	4
Batteries and Battery Management 1	4
Other Charging Techniques	4
Other Topics in Transportation Electrification Applications	5
Electric Drivetrains	4
<b>Total (Oral) =</b>	<b>25</b>
Poster (Session Name)	# Counts
Inductive Power Transfer & Charging	16
Batteries Management & Infrastructure	16
<b>Total (Poster) =</b>	<b>32</b>
<b>Total (Accepted) =</b>	<b>57</b>
<b>Total (Submitted) =</b>	<b>87</b>
<b>Acceptance =</b>	<b>66%</b>
Total (Rejected) =	23
Total (Withdrawn) =	7

# ITEC Global Series

- **ITEC North America (60% PELS, 20% IAS, 20% PES)**
  - ITEC'13: June 16-19, 2013, Dearborn, MI, USA
  - ITEC'14: June 15-18, 2014, Dearborn, MI, USA
  - ITEC'15: June 14-17, 2015, Dearborn, MI, USA
  - ITEC'16: June 27-29, 2016, Dearborn, MI, USA
  - ITEC'17: June 22-24, 2017, Navy Pier, Chicago, IL, USA
  - ITEC'18: June 13-15, 2018, Long Beach, CA, USA
  - ITEC'19: June 19-21, 2019, Metro Detroit, MI, USA
  - **ITEC'20: June 19-21, 2020, Navy Pier, Chicago, IL, USA**
- **ITEC Asia & Pacific (36% IAS, 12% PELS, 12% PES, 40% Others) – Led by IAS**
  - August 31 – September 3, 2014, Beijing, China
  - June 1-4, 2016, Busan, Korea
  - August 2-5, 2017, Harbin, China
  - June 6-9, 2018, BITEC, Bangkok, Thailand
  - **May 8-11, 2019, Seogwipo-si, South Korea**
- **ITEC India & Middle East – Led by IAS in Partnership with SAEINDIA**
  - August 27 – 29, 2015, Chennai, India
  - December 13-15, 2017, Pune, India
  - **December 17-19, 2019, Bangalore, India**
- **ESARS-ITEC Europe**
  - November 2-4, 2016, Toulouse, France
  - November 7-9, 2018, Nottingham, UK

# ITEC 2019

## Organizing Committee:

- General Chair: Jin Ye, University of Georgia
- Program Chair: Babak Nahid-Mobarakeh, Université de Lorraine
- Program Co-Chair: Srdjan Lukic, North Carolina State University
- Assistant Program Chair: Fei Gao, University of Technology of Belfort-Montbeliard
- Publication Chair: Phil Kollmeyer, McMaster University
- Panel Chairs: Long Wu, John Deere and Liang Du, Temple University
- Tutorial Chair: Babak Nahid-Mobarakeh, Université de Lorraine

# ITEC 2019

- Co-Sponsored by IEEE-PELS (60%), IAS (20%), and PES (20%)
- Suburban Collection Showplace, MI, June 19-21, 2019
- 248 Papers Received, 184 Papers Presented (74% Acceptance Rate, 100 Oral and 84 Poster)
- 43 Exhibitors, 396 Paid registrations, 600+ Attendees, 271k Revenue (25% Surplus)
- 12 Keynotes, 1 Town Hall Session, 7 Industry Panels, 11 Short Courses/Tutorials
- Launched the first Women in Engineering Event
- PELS Day Celebration

# ITEC Asia Pacific – 2019

- 2019 IEEE Transportation Electrification Conference and Expo Asia-Pacific (ITEC Asia-Pacific 2019)
- Date: Wednesday, May 08, 2019 8:00 am - Saturday, May 11, 2019 5:00 pm
- Location: Jeju International Convention Center(ICC), Jeju-si, Seogwipo-si, South Korea  
Website: <http://www.itec-ap2019.com/>
- General Chair; Prof Gaemyoung Lee,

# ITEC India – 2019

- Led by IEEE IAS in Partnership with SAEINDIA
- December 17–19, 2019, Bengaluru, India
- Total no. of Delegates expected 700+
- Organized 12 Keynote Speeches and 4 Plenary Sessions
- No. of papers submitted 234
- No. of track chairs 32
- No. of reviewers 280
- No. of papers accepted 155 (66%)
- The next ITEC India 2021 will take place in Gurgaon/Noida, India

# Upcoming Conferences

- TSC will involve in various conference in 2020 at various capacities.
  1. ITEC 2020, Chicago, IL
  2. ECCE 2020, Detroit, MI
  3. ITEC-Asia Pacific 2020
  4. ITEC-India 2021, Gurgaon/Noida, India

# ITEC 2020

## General Chair:

Babak Nahid-Mobarakeh, Université de Lorraine

## Program Chair:

Srdjan Lukic, North Carolina State University

## Program Co-Chair:

Matthias Priendl, Columbia University

## Publication Chair:

Fei Gao, University of Technology of Belfort-Montbéliard

## Publication Co-Chair:

Liang Du, Temple University

## Panels Chairs:

Jiangbiao He, University of Kentucky

Mohammad Sedigh Toulabi, Fiat Chrysler Automobiles

## Short Courses/Tutorials Chair:

Srdjan Lukic, North Carolina State University

# TEC Update



Microsoft  
PowerPoint Presentation

# ECCE 2020



Microsoft  
PowerPoint Presentat

# Committee Update

- IEEE IAS TSC has a new active website at <http://sites.ieee.org/ias-tcs/>
- This is a new website and we will keep this website updated with information on our committee meetings and related committee news.
  - If you have suggestions for the content, please let us know.
- We sent out around 10 e-mails annually to our members to keep them updated regarding our society/committee related activities.
- Total members as of 2018 is ~230.
- If you want to be a member, please send your contact information to Dr. Mithat Kisacikoglu at [mkisacik@ua.edu](mailto:mkisacik@ua.edu)

# New Committee

# Committee Officers – 2020-2021

## **Chair:**

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University of Wisconsin-Madison

## **Vice Chair (Papers):**

Dr. Mohammad Anwar  
General Motors

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University of Alabama

## **Secretary:**

## **Past Chair:**

Dr. Mohammad Islam  
Halla Mechatronics

# Nomination

## ■ Education

- B.Sc. in Electrical and Electronic Engineering - Bangladesh University of Engineering & Technology (BUET)
- MBA (Finance), University of Dhaka, Bangladesh
- M.Sc. in Electrical Engineering – University of Detroit Mercy, MI, USA
- Ph.D. in Electrical Engineering – The University of Akron, Ohio, USA

## ■ Career

- 15+ years in the field of electric drives. Held various positions at Dura, Delphi/GM/Nexteer, TRW/ZF (since 2005)
- Adjunct Faculty at University of Detroit Mercy (UDM) – 2000-2001
- Plant Manager at Hosaf meter industry Ltd, Bangladesh (1996-1999)

## ■ IEEE Activities

- Senior Member (since 2011)
- PEV, (ETAC of ABET) for accreditation of engineering program –since 2017
- Associate editor, IEEE transportation systems committee (since 2017)
- Working group member -IEEE P1812 standard (International standards for testing Permanent Magnet Machines)
- Technical committee topic vice chair, track chair, session chair for ECCE, APEC, ITEC, IEMDC, ICEMS etc. (since 2010)
- Transaction paper, conference paper reviewer (since 2005)
- Invited speaker / special session organizer at ICEMS-Sydney, 2017, IQPC-Berlin, 2019
- Panelist in ITEC – Chicago, 2017
- Award representatives, TSC- 2019

## ■ Personal

- Married – wife and two kids



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University of Alabama

## **Secretary:**

Dr. Rakib Islam  
Dura Automotive

## **Past Chair:**

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Halla Mechatronics

**It is an exciting time for  
transportation electrification**

**Please join TSC**