Dear IEEE IES Students and Young Professionals (S&YP),

Thank you for your excellent contribution and congratulation! It is a great honor to announce the Awardees of the IEEE IES Student & Young Professionals Paper Assistance (IES-SYPA) competition for the IEEE IECON 2019.

Important note for the S&YP that applied for the IES-SYPA:
In this year for the IEEE IECON 2019 we have received 63 applications for the IES-SYPA competition. The average weighted score is 7.42. We would like to announce 16 IES-SYPA (recognition diploma plus up-to USD 2000 travel costs reimbursement) recipients (see the table below).

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<tr>
<th>transaction</th>
<th>applicant</th>
<th>manuscript title</th>
<th>all authors</th>
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<tr>
<td>LF-016896</td>
<td>Tejaswini Kantamani, IIT, Madras, India, <a href="mailto:tejaswini.ktantm@gmail.com">tejaswini.ktantm@gmail.com</a></td>
<td>Inductive-Capacitive Coupled Probe for Non-Contact Measurement of Liquid Conductivity</td>
<td>Tejaswini Kantamani, Boby George, Jagadeesh Kumar V</td>
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<td>LF-020605</td>
<td>Ruoji Li, Shanghai Jiao Tong University, China, <a href="mailto:louiseLi777@outlook.com">louiseLi777@outlook.com</a></td>
<td>A Knowledge Graph Framework for Software-Defined Industrial Cyber-Physical Systems</td>
<td>Ruoji Li, Wenbin Dai, Sheng He, Xiaosheng Chen, Genke Yang</td>
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<td>LF-009636</td>
<td>Peng Zhao, School of Information Science and Technology, ShanghaiTech University, China, <a href="mailto:zhaopeng@shanghaitech.edu.cn">zhaopeng@shanghaitech.edu.cn</a></td>
<td>A Novel Wireless Fast Charger Using Unregulated IPT Stage</td>
<td>Peng Zhao, Rong He, Kang Yue, Yu Liu, Minfan Fu</td>
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<td>LF-009768</td>
<td>Rasul Tarvirdi-Asl, McMaster University, Canada, <a href="mailto:tarvirdi@mcmaster.ca">tarvirdi@mcmaster.ca</a></td>
<td>A Finite Control Set Model Predictive Torque Control for Switched Reluctance Motor Drives with Adaptive Turn-off Angle</td>
<td>Rasul Tarvirdi-Asl, Shamsuuddin Nalakath, Berker Bilgin, Ali Emadi</td>
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<td>LF-017876</td>
<td>Zhengkun Yang, Harbin Institute of Technology, China, <a href="mailto:zhengkunyang1995@foxmail.com">zhengkunyang1995@foxmail.com</a></td>
<td>Plug-and-Play Process Control System Design for Three-Tank System with Online Tracking Performance Optimization</td>
<td>Zhengkun Yang, Hao Luo, Hao Zhao, Shen Yin, Okay Kaynak</td>
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<td>LF-022675</td>
<td>Oleksandr Korkh, Tallinn University of Technology, Estonia, <a href="mailto:oleksandr.korkh@taltech.ee">oleksandr.korkh@taltech.ee</a></td>
<td>Zero-Current Switching Impedance-Source DC-DC Converter</td>
<td>Oleksandr Korkh, Andrei Blinov, Andrii Chub, Dmitriy Vinikov</td>
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<td>LF-027162</td>
<td>Zhichang Yang, Beijin Jiaotong University, China, <a href="mailto:zhichangyang6@gmail.com">zhichangyang6@gmail.com</a></td>
<td>Accurate Modeling and Stability Analysis for Chaotic PWM Boost Converters Based on Describing Function Method</td>
<td>Zhichang Yang, Hong Li, Chen Liu, Yuhang Ding, Bo Zhang</td>
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<td>LF-038997</td>
<td>Chan Lee, DigiS, Korea (South), <a href="mailto:chanlee@digis.kr">chanlee@digis.kr</a></td>
<td>High Fidelity Impedance Control of Series Elastic Actuator for Physical Human-machine Interaction</td>
<td>Chan Lee, Dasol Cheon, Sehoon Oh</td>
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<td>LF-041939</td>
<td>Daniel Marino, Virginia Commonwealth University, United States, <a href="mailto:marini0@vcu.edu">marini0@vcu.edu</a></td>
<td>Data-driven Stochastic Anomaly Detection on Smart-Grid communications using Mixture Poisson Distributions</td>
<td>Daniel Marino, Chathurika Wikramasinghe, Craig Rieger, Milos Manic</td>
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<td>LF-026859</td>
<td>Yuma Mitsusada, Department of Electrical Engineering Tokyo University of Science, Japan, <a href="mailto:yuma@ed.tus.ac.jp">yuma@ed.tus.ac.jp</a></td>
<td>Voltage-Source Parallel Resonant Class DE Inverter With Shunt Capacitor</td>
<td>Yuma Mitsusada, Hirotaka Koizumi</td>
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<td>LF-024406</td>
<td>Aparna Mohan, IIT Madras, India, <a href="mailto:aparna.ushae@gmail.com">aparna.ushae@gmail.com</a></td>
<td>Successive Approximation Type Direct Displacement to Digital Converter Suitable For Floating-Wiper Resistive Displacement Sensor</td>
<td>Aparna Mohan, Mohanasananar Sivaprakasam, Jagadeesh Kumar V</td>
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<td>LF-035815</td>
<td>Janaki Ramaiah V, Indian Institute of Technology Hyderabad, India, <a href="mailto:ee17resch11013@iith.ac.in">ee17resch11013@iith.ac.in</a></td>
<td>Operation of Nine-Phase Induction Machine under Single-Phase Open-Winding Fault Condition using Dodecagonal SVMSPWM and Hexagonal SVMSPWM</td>
<td>Janaki Ramaiah V, Jitendra Babu Kummari, Sivakumar Keerthipati</td>
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<td>LF-033995</td>
<td>Boyuan Yin, University of Bath, United Kingdom, <a href="mailto:by331@bath.ac.uk">by331@bath.ac.uk</a></td>
<td>A comparison between moving magnet and moving coil actuators for vacuum interrupters</td>
<td>Boyuan Yin, Xiaoxu Pei, Xiamu Zeng, Fred Eastham</td>
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<td>LF-012416</td>
<td>Dongxiang Yan, Shanghai Jiao Tong University, China, <a href="mailto:dongxiangyan@sjtu.edu.cn">dongxiangyan@sjtu.edu.cn</a></td>
<td>Optimal Sizing of a PV Based Electric Vehicle Charging Station Under Uncertainties</td>
<td>Dongxiang Yan, Chengbin Ma</td>
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<td>LF-007412</td>
<td>Saeed Amirfarhangi Bonab, McMaster University, Canada, <a href="mailto:amirfars@mcmaster.ca">amirfars@mcmaster.ca</a></td>
<td>Optimization-based Path Planning for an Autonomous Vehicle in a Racing Track</td>
<td>Saeed Amirfarhangi Bonab, Ali Emadi</td>
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<td>LF-041777</td>
<td>Tirumala Rao Yalla, IIT Kharagpur, India, <a href="mailto:yallatirumala@gmail.com">yallatirumala@gmail.com</a></td>
<td>An adaptive rotor resistance estimation technique for vector controlled induction motor drive suitable for electric vehicle application</td>
<td>Venkatarasinarieharo Medam, Saptarshi Basak, Tirumala Rao Yalla, Chandan Chakraborty</td>
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Mandatory requirements and important notes:

I. Please take into account that IEEE IES must follow general rules of IEEE related with OFAC Sanctions Programs to learn more please see [https://www.ieee.org/about/compliance/ofac/sanctions.html](https://www.ieee.org/about/compliance/ofac/sanctions.html). For more details, you may ask The Legal and Compliance Department available to assist with reviewing any questions that you may have with respect to OFAC or other compliance matters and can be reached at [compliance@ieee.org](mailto:compliance@ieee.org).

II. You will have to be active during the conference as a volunteer. For tasks and more details, please contact Secretary of IECON 2019 [iecon2019@iecon2019.org](mailto:iecon2019@iecon2019.org) and Luis Gomes, Gen. Chair of IECON 2019 at [lugo@uninova.pt](mailto:lugo@uninova.pt).

III. Students and Young Professionals must present their project in a 3-minutes speech (3Ms) accompanied by a 3-minute video clip and with hardware demonstration (if applicable).

IV. You will receive the IES-SYPA result by email from Marek Jasinski, and then, you will receive the full instruction on how to prepare that video and speech for 3Ms IES-SYPA Speech Video Session and the submission deadline from Hani Vahedi ([hani.vahedi@ieee.org](mailto:hani.vahedi@ieee.org)).

V. Your video will be uploaded on IES YouTube Channel, Facebook Page, and IEEE Collabratec to be available during the conference. Important:
   a. Please open an IEEE Collabratec account with your IEEE login information, and you will receive the information about how to join the IES-SYPA group.
   b. Once your video is approved and uploaded to the IES YouTube, then you should post it to the IEEE Collabratec Group and to the Facebook event page.

VI. Please be sure that during the conference **you should have your video available offline** and the hardware demonstration (if applicable). *(Tuesday, 15.10.2019, Auditorium I, 16:20 - 17:10, 3 Minute Speeches Session of Young Professionals & Students IES-SYPA recipients)*.

VII. The diplomas for the IES-Student Paper Travel Assistance (IES-SYPA) will be presented during the conference at the Gala Dinner.

VIII. **Take photos during the conference and submit them on your and IES Facebook profile.**

IX. Submit your expenses report via Concur:
   In Concur, please select the following expense report purpose (ERP).
   Expense Report Purpose Lvl 1 - Technical Activities Societies
   Expense Report Purpose Lvl 2 - Industrial Electronics Society
   Expense Report Purpose Lvl 3 - VP-Membership Student Activities
   Expense Report Purpose Lvl 4 - YPROS (this is the only option available to select)
   If you have further questions, please check:
   [http://www.ieee-ies.org/members/treasurer-information](http://www.ieee-ies.org/members/treasurer-information)

X. **PLEASE NOTE THAT IEEE IES STUDENT & YOUNG PROFESSIONALS PAPER ASSISTANCE is consist of:**
   - Recognition Diploma and
   - up to USD 2000 travel cost reimbursements.

XI. You can find all the necessary information on Industry Electronics Society websites:
   [https://www.facebook.com/IndustrialElectronicsSociety/](https://www.facebook.com/IndustrialElectronicsSociety/)
   [http://www.ieee-ies.org/SYP](http://www.ieee-ies.org/SYP)
   [https://www.youtube.com/channel/UCKp8GNii0Q-ieXE56AXosGg](https://www.youtube.com/channel/UCKp8GNii0Q-ieXE56AXosGg)

On behalf of the IEEE IES-SYPA Competition Jury:

IEEE IES President Xinghuo Yu, IES Treasurer Milos Manic, and IES President-Elect Terry Martin,
Vice President for Conference Activities Juan José Rodríguez Andina,
Vice President for Membership Activities Yousef Ibrahim,
Conference General Chair: Luis Gomes,
Web & Information Committee: Andres A. Nogueiras Melendez, Aleksander Malinowski,
Ad-Hoc committee related to IEEE OFAC Sanctions Programs:
Gus Wagner Director, Technical Activities Operations and Society Support Services IEEE Technical Activities.
Matt LaFleur Technical Community Program Coordinator IEEE Technical Activities.
and Young Professional & Student Activity Committee: Marek Turzynski, Hani Vahedi, Dmitri Vinnikov, Marek Jasinski.

Congratulations and Good Luck,
Chair of the IEEE IES Young Professional & Student Activity Committee,
Marek Jasinski

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