



SPECIAL SESSION SS03

2020 IEEE 19th International Power Electronics and Motion Control Conference (IEEE-PEMC 2020) will include Special Sessions, which are organized on highly specialized topics within conference scope that were not included in the previous editions of the conference. The organizers of those sessions must observe the scope of the conference and submit session proposal to the Conference secretariat for acceptance. Please provide data of the session included in the form below. At least one (and max. two) session organizer is required to provide contact data and short biography.

Session details:

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| Session title: <u>Wireless Power Transfer</u> | |
| <p>Session description (session scope, novelty, goals; 100-200 words):</p> <p>Recent advancements in near-field wireless power transfer (WPT) technology has indicated its suitability to applications in which conventional wired power transfer is impossible or undesirable, e.g. portable electronics, electric vehicles, implanted medical devices etc. due to distinct characteristics of flexibility, movability and cordless implementation. As for today, WPT utilizing magnetic and/or electric field for energy transfer are the mostly studied techniques. This special session offers an opportunity for both academic and industrial researchers to exchange latest results and findings within the subject of near-field wireless power transfer technologies as well as present promising future development directions.</p> | <p>Keywords, topics:</p> <p><u>Modeling, simulation, control, optimization, analysis, applications, topologies, protection, capacitive, inductive power transfer.</u></p> |

Organizer(s) details:

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| First (main) organizer (title, name and surname): <u>Alon Kuperman</u> | |
| E-mail: <u>alonk@bgu.ac.il</u> | Affiliation: <u>School of Electrical Engineering, Ben-Gurion University, Israel.</u> |
| Short bio: <u>Alon Kuperman received the Ph.D. degree in electrical and computer engineering from the Ben-Gurion University of the Negev, Beersheba, Israel, in 2006. He was a Marie Curie Training Site Member with Imperial College London, London, U.K. He was an Honorary Research Fellow with the University of Liverpool, Liverpool, U.K., in 2008-2009. He is currently with the Department of Electrical and Computer Engineering, Ben-Gurion University, where he is heading the Power and Energy Systems track. His research interests include all aspects of energy conversion and applied control.</u> | |
| Second (optional) organizer (title, name and surname): <u>Click or tap here to enter the text.</u> | |
| E-mail: <u>Click or tap here to enter the text.</u> | Affiliation: <u>Click or tap here to enter the text.</u> |
| Short bio: <u>Click or tap here to enter the text.</u> | |

