

IEEE International Conference on Industrial Electronics for Sustainable Energy Systems (IESES 2023)

Special Session on

“Advanced Wireless Power Transfer System with Wide Operating Range”

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Call for Papers

Theme:

Electric energy has played an inestimable role in the development of modern industrial production and the improvement of human material living standards. Wireless power transfer (WPT) technology makes up for the shortage of the traditional wire-based power transfer and has more obvious advantages, such as safety, reliability and convenience, etc. WPT is undergoing a rapid development in recent decades, and it has found a lot of applications in EV charging, implantable biomedical device charging, consumer electronics wireless charging, etc. For WPT technology, longer transfer distance, higher misalignment tolerance, larger load variation range and higher transfer efficiency have always been the research focus. This Special Session will focus on the advanced WPT system with wide operating range. Topics of interest for publication include, but are not limited to the following:

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| 1 | Compensation network design and parameter optimization |
| 2 | Magnetic field analysis and coupling mechanism design |
| 3 | Control strategy and method |
| 4 | Power conversion circuits (inverters, rectifiers, etc.) |
| 5 | Electromagnetic compatibility and shielding |
| 6 | Foreign object detection |
| 7 | Wireless power and data transfer |
| 8 | New wireless power transfer method |
| 9 | Special application of wireless power transfer technology |

Submissions Procedure:

All the instructions for paper submission are included in the conference website:

<https://www.ieee-ieses.org>

Deadlines:

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| Full paper submission: | Mar. 31, 2023 |
| Paper acceptance notification: | Apr. 15, 2023 |
| Camera-ready paper submission: | May 15, 2023 |