

Annual Conference of the IEEE Industrial Electronics Society (IECON 2021)

Special Session on

“Advanced Technologies for Inductive Power Transfer”

Organized by

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Call for Papers

Theme:

As one of the most rapidly expanding and potential techniques, inductive power transfer (IPT) has been involved in various applications, especially for electric-driven devices. Since the IPT technique has the advantages of electrical isolation, reliability, automation, safety, convenience, and low maintenance, more and more academic institutes and industries are getting involved in this emerging area. Thus, the IPT shows significant meanings for charging portable electronic devices, integrated circuits and electric vehicles, implanted medical devices, etc. This session aims to offer a timely opportunity for academic researchers and industrial engineers to present, discuss, and exchange the latest results and findings of IPT technologies on topology design, electromagnetic field theory, power electronics and applications, as well as the future development directions.

Topics of interest include, but are not limited to:

- Wireless charging for electric vehicles;
- Wireless charging systems for portable devices and smart home appliances;
- High frequency converters for IPT;
- Electromagnetic compatibility and safety designs;
- Multiple-frequency multiple-objective IPT applications;

- Analytical and finite element methods for IPT technologies;
- Emerging applications such as wireless motor lighting, heating; etc.;
- Detection techniques for wireless charging;
- Overview paper on IPT techniques and development.

Submissions Procedure: All the instructions for paper submission are included in the conference website: <https://attend.ieee.org/iecon-2021/>

Deadlines:

Full paper submission:	June 25, 2021
Paper acceptance notification:	July 30, 2021
Camera-ready paper submission:	Aug. 27, 2021

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