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Speaker's name and affiliation

Prof. Hiroo Sekiya, Chiba University,
Chiba, Japan (sekiya@faculty.chiba-u.jp)



Prof. Xiuqin WEI, Chiba Institute of Technology,
Chiba, Japan (xiuqin.wei@p.chibakoudai.jp)



Tutorial title

Design of Magnetic Resonance Wireless Power Transfer with Load-Independent Technology

Abstract:

The importance of renewable energy is widely acknowledged. However, the various green energies are ultimately converted into electrical energy, and we all use the energy for our society richen. Therefore, increasing the convenience of charging terminals (the final stage of energy transfer) will directly lead to our life. In this sense, wireless power transfer is a technology that should play a significant role in enhancing convenience. The practical application of wireless power transfer will afford greater freedom in the installation of electrical and electronic equipment and will enable us to optimize the effectiveness of renewable energy.

In this talk, I will discuss the magnetic resonance type of wireless power transfer, which can provide a solution to the problems of load variations and coupling-coil misalignment, which are the essential problems of magnetic resonance type wireless power transfer, by using a special technique called load independent technology.