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National PhD in Micro- and Nano-Electronics

SEMINAR

Isolated Power Transfer Using On-Chip Transformers with Magnetic Core

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Analog Devices Inc.

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Classroom E1 (E Floor)

Abstract: This seminar will introduce an isolated DC-DC converter with fully integrated magnetic core transformer. The converter achieves best-in-class efficiency and EMI performance which are most concerned for isolated DC-DC converter with on chip transformer. The proposed chip-level isolated DC-DC converter contains an integrated transformer with magnetic core, a symmetric pre-driver, a full-bridge driver, modified LLC resonance network, a full-wave bridge rectifier with on-chip Schottky diode and type II compensation network. Fully symmetric architecture and accurate timing control are utilized to minimize the radiated emissions and maximize the efficiency.

Bio: Baoxing Chen is a Vice President and ADI Fellow at Analog Devices in Wilmington, Massachusetts, leading core isolation technology developments and the chip scale thermoelectric harvester initiative. Baoxing has worked at ADI since 1997. Baoxing has a Ph.D. in Physics and M.S. in EE from the University of Michigan.

Organizer

Prof. Piero Malcovati

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Seminar in English

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