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**Abstract**

**Title: High Power Density and High Frequency Converter Design**

Owing to the energy shortage and the rising awareness of environment protection, not only makes people pay attention to energy saving issue, but jointly affect the development trend of power electronic industries. According to the roadmap of power electronics industries, it includes improving energy conversion efficiency, decreasing components and increasing power density. The talk particularly focuses on high power density AC-DC/ DC-DC/ DC-AC conversion techniques for information technology, electric vehicles, and renewable energy applications..