Trends and Innovations in Electronic Design Automation Software
By
Dr. Steve CHEN
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Date: August 27, 2015 (Thursday)
Time: 2:00 pm
Place: Room 121, Ho Sin-Hang Engineering Building, CUHK

Abstract
In this presentation, Dr. Chen will share his view of how the trends of Cloud, Big Data, IoT and 5G drive demands in electronic design. Key technological enablers will be highlighted and the rapidly increasing technical complexity and challenges faced by electronic designers will be discussed. An overview of Electronic Design Automation (EDA) will be provided at various levels of abstraction – semiconductor device modeling, circuit simulation, multi-technology module integration, and system level simulation. Emphasis will be on how EDA innovations help designers address technical challenges. A number of specific and current engineering case studies will be illustrated. The talk will conclude with a discussion of core skills for a successful career in EDA software industry.

Biography
Dr. Steve Chen is an R&D Section Manager in the EEs of EDA division at Keysight Technologies. He leads R&D teams at several global sites responsible for developing simulation software for circuit design, electromagnetic and electrothermal verification. He is also the R&D leader for EEs of's high-speed digital EDA business segment. Steve received his B.S. degree in EE from South China Institute of Technology and his Ph.D. degree in EE from McMaster University in Canada. He held positions in academia and a small start-up before joining Hewlett-Packard in Santa Rosa in 1997. Dr. Chen has broad experience in both academic research (60+ journal papers published) and engineering management. He has technical expertise in electromagnetics, optimization and statistical analysis, semiconductor device modeling, RF microwave circuits and systems. His current focus is on high-speed digital design solutions, particularly on signal and power integrity, EMC/EMI and photonics.

*** All are welcome to attend ***

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