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THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

Low Power Design for Open Wireless Architecture (OWA) Baseband Processor supporting Various Wireless Standards

by

Dr. Willie Lu

Date : 20 October, 2010 (Wednesday)
Time : 4:30-5:30pm
Venue : Room 833, Ho Sin Hang Engineering Building
The Chinese University of Hong Kong

Abstract

The OWA (Open Wireless Architecture) family of programmable and open baseband processors is designed for hosting multiple wireless standards of mobile communication, wireless connectivity, and reception of broadcast services in one common open platform.

The OWA Processors obtain the necessary flexibility and intelligence from a set of programmable SIMD processor cores, which exchange data through shared on-chip memories with multi-layered buses. The processors are supported by several dedicated reconfigurable accelerators including Open Computing Machines (OCM)accelerators and Open Kernels accelerators. This innovative OWA architecture has been widely used in the next generation mobile phone development, baseband processor development as well as mobile cloud solutions by Apple, Intel, Cisco, Nokia, RIM and Google, etc.

Biography

Willie was former associate professor of EE Department in Stanford University and is a full professor of Zhejiang University and Research Institute of Tsinghua University with expertise in advanced wireless and mobile communications. He is worldwide well-known for his invented Open Wireless Architecture (OWA) core technology which is being widely used in mobile handheld devices and portable devices by many Fortune 500 companies both in the Silicon Valley and global. He founded many world-class technology events including World Wireless Congress, Mobile World Congress, Global Mobile Congress, 4G Mobile Forum and 4G Summit with over 100,000 global wireless professionals involved in his events since 2000. Currently, Prof. Lu is focusing on the continued improvement of his OWA technology core for the future Mobile Cloud infrastructure, and interested in the investment, acquisition and evaluation of critical IPRs in the field of mobile communications and energy technology. Willie spent about five years in Stanford Law School, etc on U.S. IPR laws and is also an independent technology examiner for US IPR Courts as well as European Commissions.

**** ALL ARE WELCOME ****

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