

Seminar on

New Interconnect Technology of High-Speed Integrated Circuits

By

Prof Jun-Fa Mao

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15/F, Lau Ming Wai Academic Building, City University of Hong Kong
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Abstract

積體電路晶片中半導體元器件之間、電子系統中各晶片或元件之間都通過互連線進行連接。在過去比較大工藝尺寸和比較低工作速度情況下，互連僅僅起著電連通作用，相當於短路，電路系統的性能幾乎與互連無關。但隨著積體電路的工作速度不斷提高，互連將產生信號完整性、功耗以及工藝可靠性等一系列互連問題。本講座針對這些互連問題，介紹幾種高速積體電路互連新技術。

Biography

Jun-Fa Mao (M'92–SM'98–F'2012) was born in 1965. He received the B.S. degree in radiation physics from the University of Science and Technology of National Defense, China, in 1985, the M.S. degree in experimental nuclear physics from Shanghai Institute of Nuclear Research, Shanghai, China, in 1988, and the Ph.D. degree in electronic engineering from Shanghai Jiao Tong University, Shanghai, China, in 1992.

Since 1992, he has been a Faculty Member in Shanghai Jiao Tong University, Shanghai, China, where he is currently a chair professor and the Dean of the School of Electronic Information and Electrical Engineering. He was a visiting scholar at the Chinese University of Hong Kong, Hong Kong, from 1994 to 1995, and a postdoctoral researcher at the University of California, Berkeley, from 1995 to 1996. His research interests include the interconnect and package problem of integrated circuits and systems, analysis and design of microwave circuits. He has authored or coauthored more than 250 journal papers (including more than 110 IEEE journal papers) and 150 international conference papers.

Dr. Mao earned the National Natural Science Award of China in 2004, the National Technology Invention Award of China in 2008 and the National Science and Technology Advancement Award of China in 2012, earned the Best Paper Award of 2008 Symposium of APEMC. He is a chief scientist of The National Basic Research Program of China, a project leader of the National Science Foundation for Creative Research Groups of China, a Cheung Kong Scholar of the Ministry of Education, China, an Associate Director of the Microwave Society of China Institute of Electronics, and the 2009-2016 Chair of IEEE MTT-S Shanghai Chapter. He was the founder and the 2007–2009 Chair of the IEEE Shanghai Section.

*** ALL ARE WELCOME ***

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