



Department of Electronic and Information Engineering

Seminar

Recent advances in optical communications research

by

Dr Xiang Liu

Distinguished Member of Technical Staff at Bell Labs

Alcatel-Lucent, USA

Date: 15 July 2011, Friday

Time: 11:00 a.m. ~ 12:00 noon (Refreshment starts at 10:45 a.m.)

Venue: Room CD634, Department of Electronic and Information Engineering
The Hong Kong Polytechnic University

ABSTRACT

We review recent advances in optical communications research, including high spectral-efficiency superchannel transmission beyond 100 Gb/s, advanced digital signal processing for software-defined optical transmission, and ultrahigh-sensitivity optical communications. Emerging research topics such as optical MIMO and space-division multiplexing will also be discussed.

ABOUT THE SPEAKER

Dr Xiang Liu is a Distinguished Member of Technical Staff at Bell Labs, Alcatel-Lucent. Dr Liu received his Ph.D. degree in applied physics from Cornell University. Since joining Bell Labs in 2000, Xiang has been primarily working on high-speed optical communication technologies including advanced modulation formats and coherent detection schemes. Dr Liu has authored/coauthored more than 200 journal and conference papers, and holds over 35 US patents. He is a Fellow of the OSA, a Senior Member of the IEEE, and an Associated Editor of Optics Express. He is also serving in the technical committees of various conferences such as OFC, ACP, and WOCC.

ALL ARE WELCOME

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