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Generalizing traditional teletraffic models for modern optical network technologies

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Date and Time: Friday, 12 September 2008, 4:30pm – 5:30pm
Venue: Room **B**6605, City University of Hong Kong
Reception starts at 4:15pm
(Language: **English**)

Abstract

Teletraffic theory has evolved during the previous century mainly to support performance evaluation and design of the telephone network. As telecommunications networking evolves and relies more and more on DWDM technology, there is a need for generalization of the traditional teletraffic models and developments of new models to support the current evolution of network technology. This talk will present several examples of such new teletraffic models and their analyses and, specifically, demonstrate how the traditional Engset model can be extended to provide improved, accurate and computationally efficient approximations for performance evaluation, design and dimensioning of DWDM switches and networks.

About the Speaker

Dr. Wong joined the City University of Hong Kong as an Assistant Professor in the Department of Electronic Engineering in 1994. He received his B.Sc. and M.Phil. degrees in electronic engineering from the Chinese University of Hong Kong in 1988 and 1990 respectively, and his Ph.D. degree in electrical and computer Engineering from the University of Massachusetts at Amherst in 1994. His current research interests are in the analysis and design of telecommunications networks, optical burst switching, and video-on-demand.

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