



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

**Mixed Regenerator Placement and Routing
and Wavelength Assignment for
Energy-Efficient Optical Transport Networks**

by

Professor Zuqing Zhu
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Date : 8 December, 2011 (Thur.)
Time : 3:30pm-4:30pm
Venue : Room 1009, William M.W. Mong Engineering Building
The Chinese University of Hong Kong

Abstract

In this talk, we will focus on the network design algorithms to minimize the power consumption of an optical transport network with joint optimization of mixed regenerator placement and routing and wavelength assignment. The performance of the algorithms is investigated with simulations in various network topologies. Simulation results indicate that the algorithms can effectively reduce the number of O/E/O 3R regenerators, leading to less power consumption on signal regeneration and green network design.

Biography

Zuqing Zhu received the B.S. degree from the Department of Electronic Engineering and Information Science, University of Science and Technology of China, in 2001, and the M.S. and PhD degrees from the Department of Electrical and Computer Engineering, University of California, Davis, in 2003 and 2007, respectively. His PhD research was on advanced optical switching technologies for the next-generation optical networks. In Jul. 2007, Dr. Zhu joined the Service Provider Technology Group of Cisco Systems, San Jose, as a senior researcher. In Cisco, he worked on research and development of wideband access routers for hybrid fiber-coaxial (HFC) cable networks and passive optical networks (PON). In Jan. 2011, Dr. Zhu joined the University of Science and Technology of China (USTC), as an Associate Professor. He has published more than 50 papers on the journals and conferences of IEEE, IEE and OSA. Dr. Zhu has been in the technical program committees (TPC) of INFOCOM, ICC, GLOBECOM, ICCCN and etc. Dr. Zhu is also an editorial board member of Journal of Optical Switching and Networking (Elsevier), Telecommunication Systems Journal (Springer), European Transactions on Telecommunications (Willey), and etc. He is a member of IEEE and OSA.

**** ALL ARE WELCOME ****

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