



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

The Internet - Back to the Future

by

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Date : 11 November, 2009 (Wed.)
Time : 2:30-3:30pm
Venue : Room 833, Ho Sin Hang Engineering Building
The Chinese University of Hong Kong

Abstract

A general overview on the growth of Internet traffic will be provided together with a tutorial on fundamental principles underpinning the effects of traffic management and behaviour on network performance, quality of service provision and efficiency. Considering power constraint on Internet growth, the profile of Internet traffic and the high utilization achievable by dense wavelength division multiplexing, a conjecture is made that the future Internet may be different from it is today and that efficient design of telecommunications network will be based on increasing the role of technologies such as circuit/flow switching/routing in the future Internet. This will lead to new research directions on how best to incorporate such technologies in an Internet which currently is predominantly IP based. The talk is aimed for the general audience without relying on significant technical expertise.

Biography

Moshe Zukerman received his B.Sc. in Industrial Engineering and Management and his M.Sc. in Operation Research from Technion-Israel Institute of Technology and a Ph.D. degree in Engineering from The University of California Los Angeles in 1985. During 1986-1997 he served in Telstra Research Laboratories (TRL). During 1997-2008 he was with The University of Melbourne. In Dec 2008, he joined City University of Hong Kong where he is a Chair Professor of Information Engineering. He has served on the editorial boards of various journals such as IEEE JSAC, IEEE/ACM Transactions on Networking and IEEE Communications Magazine. Prof. Zukerman has over 200 publications in scientific journals and conference proceedings, has been awarded several national and international patents, two conference best paper awards and honorary Professorships at CCNU, Wuhan; CityU, Hong Kong; and BJTU, Beijing. He is a Fellow of the IEEE and has served as a member and Chair of the IEEE Koji Kobayashi Computers and Communications Award Committee.

**** ALL ARE WELCOME ****

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