

Cross-Layer Architecture and Design Approaches for Optical Networks

Balagangadhar G. Bathul, Columbia University

Date: November 8, 2011 (Tuesday)
Time: 4:30 pm (refreshment starts at 4:15 pm)
Place: 202 ECEC, NJIT

About the Speaker



Balagangadhar G. Bathul received his M.Tech (Opto Electronics and Laser Technology) from International School of Photonics, Cochin University, India and PhD degree in Electrical & Communication Engineering, Indian Institute of Science, Bangalore in 2004 and 2008, respectively. Between Aug 2007 - May 2008 and Oct 2009 - May 2010, Bala was with University of Massachusetts, Dartmouth as a Visiting Scholar. In 2008-2009, he was a post-doc fellow at the Department of Electrical Engineering, University of Leeds, UK. Since May 2010, he is working as the post-doc at Lightwave research laboratory at Columbia University. He is coordinator for working group on Intelligent Aggregation Networks in CIAN (Center for Integrated Access Networks) NSF ERC (Engineering Research Center).

Website: <http://www.ee.columbia.edu/~bbathula>

About the Talk

In the recent past, optical networks had evolved as the provider for high bandwidth pipe in Internet. Telecom vendors across the world have already started to deploy optical data rates in the order of 100 Gb/s and beyond. These next generation, long distance optical networks would require rapid provisioning of connections, fast protection schemes against failures, quality of transmission (QoT), and fully dynamic wavelength switching. Redesigning the complex layered network architecture would be necessary to provide the service level agreements (SLAs), to improve energy efficiency, and to decrease the cost per bit for switching traffic. This talk discusses our efforts to achieve such clean-slate network design, which will enable a programmable optical layer.

Sponsors: IEEE Communications Society North Jersey Chapter
NJIT Department of Electrical and Computer Engineering

Please register for the talk at

http://meetings.vtools.ieee.org/meeting_registration/register/8577