



**Computer Society of India, Chennai Chapter
IEEE Madras Section
IEEE Computer Society, Madras Chapter
IEEE Communications Society, Madras Chapter
IIT Madras Alumni Association, Chennai Chapter**

Cordially invite you for a presentation by

Dr. Krishnaiyan Thulasiraman

**Hitachi Chair in Computer Science
University of Oklahoma, Norman, USA
Distinguished Alumnus of IIT Madras & Fellow of IEEE**

on

**“Trends in Networks and Distributed Systems:
Graph Models and Algorithms”**

on Thursday, 12th Jul 2012 at 5.30 p.m.

at

**Conference Hall, Anna University Alumni Centre
Anna University, Guindy, Chennai – 600025**

Mr. A. Chandrasekaran Chairman CSI, Chennai	Mr. T. S. Rangarajan Chairman IEEE, Madras	Mr. H.R. Mohan Chairman IEEE CS, Madras	Dr. N.R. Alamelu Chairperson IEEE COMSOC, Madras	Mr. K. Bhaskaran President IITMAA Chennai
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5.30 p.m.: Tea & Fellowship :: 6.00 p.m.: Presentation :: 7.30 p.m.: Dinner

About the presentation: Most problems in the networks and distributed systems area can be modeled as optimization problems involving graphs. Though there is a wealth of knowledge available now on sophisticated techniques of algorithm design, real life problems are far more complex (computationally intractable) and cannot readily take advantage of these techniques. So, in practice such problems are solved using as building blocks certain specialized algorithms such as the shortest path and max flow algorithms. This calls for approaches that bridge theory and practice based one engineering intuition.

In this presentation, Dr. Thulasiraman will discuss on some recent advances, particularly those related to his group's research in fault diagnosis, testing and network survivability. Specifically, he will consider QoS routing, Cross Layer Survivability in IP over WDM Optical Networks and Topology Abstraction Service for Virtual Private Networks.