



**Computer Society of India, Chennai Chapter
IEEE Computer Society, Madras Chapter
IEEE Technology Management Council, Madras Chapter
IIT Madras Alumni Association, Chennai Chapter**

Cordially invite you for a presentation by

Dr. Lelitha Devi Vanajakshi

**Associate Professor, Dept. of Civil Engineering
Indian Institute of Technology, Madras, India**

on

Intelligent Transport Systems

on Friday, 6th Feb 2015 at 6.00 p.m.

at

CSI Education Directorate, Taramani, Chennai – 600113

(Situated in the opposite lane to Indira Nagar MRTS Railway Station. About 100 meters away from the Dharmambal Women's Polytechnic & Opposite to the Institute of Mathematical Sciences and Institute of Hotel Management)

Mr. Pramod Mooriah
Chairman
CSI Chennai

Mr. H.R. Mohan
Chairman
IEEE CS Madras

Mr. K.V. Rupchand
Chairman
IEEE TMC Madras

Cmdr Mohan Menon
President
IITMAA Chennai

Programme: 6.00 p.m.: Tea & Fellowship :: 6.30 p.m.: Presentation :: 7.45 p.m.: Dinner

About the presentation: Traffic congestion in India arises from the fact that road capacity and infrastructure have not improved on par with the traffic. The direct solution for this problem – improvements in physical infrastructure – is constrained by space availability and other logistic issues. There is however scope for capacity improvements through the adoption of Intelligent Transportation Systems (ITS). ITS activities help establish a sustainable, multi-modal surface transportation system that connects vehicles and management systems through well-established technologies. Intelligent Transport Systems combine tools for automated acquisition, communication, and analysis of road data and techniques to disseminate useful information to the public/traveller. The main challenges for the implementation of a full scale Intelligent Transportation System (ITS) in India are the lack of automated traffic data collection systems and lack of theoretical models suitable for the Indian traffic conditions. Thus, automated real time traffic data collection and development of models to characterize the heterogeneous and less lane disciplined traffic conditions are the immediate requirements for ITS implementations under Indian scenario. This talk will elaborate on these two challenges and will discuss some of the initiatives taken at IIT Madras to tackle these problems with specific emphasis on the Advanced Public Transportation Systems (APTS) and Advanced Traveller Information Systems (ATIS) applications.



About the Author: Dr. Lelitha Devi Vanajakshi is an associate professor in the Transportation Engineering Division of the Department of Civil Engineering, IIT Madras. She received her Ph.D. in Transportation Engineering from Texas A&M University, USA. She has worked as research assistant in the Texas Transportation Institute. Her research interests are in the area of traffic flow modeling, traffic operations and Intelligent Transportation Systems. She is involved in many sponsored research projects in the area of Intelligent Transportation Systems funded by Department of Science and Technology, Ministry of Urban Development, Ministry of Information Technology, GoI. She is having international collaborations with Purdue University, Iowa state university, University of Nebraska Lincoln, and Trinity College Dublin, Ireland. She has been teaching in IIT Madras for the past seven years and has guided many Ph.D, MS, M.Tech. and B.Tech. students. She has around 60 international journal and conference publications and around 50 invited talks and national conferences to her credit.

To facilitate logistics, please pre-register at <http://goo.gl/forms/HJRT28WC66>