

A GIAN Course on Emerging Trends in Advance Control System Applications in Intelligent Transport Systems

December 4th-8th, 2017



Sponsored by : **MHRD, Govt. of India**

Organized By:

**Department of Electrical Engineering
Delhi Technological University**

Shahbad Daulatpur, Bawana Road, Delhi-110042, Website: www.dtu.ac.in



Patron
Prof. Yogesh Singh
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Head Electrical Engineering, DTU

Course Coordinator
Prof. Narendra Kumar
Professor, EED, DTU

Course Coordinator
Ashish Rajeshwar Kulkarni
Assistant Professor, EED, DTU

About Speaker:



Professor Markos Papageorgiou's general area of scientific interest is in modelling, optimisation and automatic control, and their applications to traffic and transportation systems, water networks, and further areas. Over the past 35 years, Prof. Papageorgiou has been involved with the development and validation of traffic flow models, and with the design, testing, and implementation of traffic control strategies for a variety of traffic control problems. He has taught regular and intensive courses on Traffic Flow Modelling and Control at renowned universities and institutions in many countries. He has been actively involved in national and international R&D projects and programs in different capacities and he has served as a consultant to industrial, research, and governmental institutions in various countries. He is the author of "Applications of Automatic Control Concepts to Traffic Flow Modelling and Control" (Springer, 1983) and "Optimierung" (Oldenbourg, 1991; 1996; Springer, 2012;2015), the Editor of "Concise Encyclopedia of Traffic and Transportation Systems" (Pergamon, 1991), and the author of numerous technical papers. He was the Editor-in-Chief of Transportation Research - Part C (2005-2012); Prof. Papageorgiou is a Fellow of the IEEE and a Fellow of IFAC. He was a recipient of the IEEE Intelligent Transportation Systems Society Outstanding Research Award (2007) and of the IEEE Control Systems Society Transition to Practice Award (2010). He was presented the title of Visiting Professor by the University of Belgrade, Serbia (2010). The Dynamic Systems and Simulation Laboratory he has been heading since 1994, received the IEEE Intelligent Transportation Systems Society ITS Institutional Lead Award (2011). Prof. Papageorgiou received an ERC Advanced Investigator Grant for the project TRAMAN21 (Traffic Management for the 21st Century) (2013-2017). He is the recipient of the Highest Cited Author Award by the Committee of Traffic Flow Theory and Characteristics of the TRB (2014).

Course Contents:

- Introduction to Regulation Problem, Controllers and Automatic Control Systems, Optimization
- Traffic Flow Modelling- Macroscopic and Microscopic Modeling
- Modeling of Traffic Flow Network
- Measurement and Estimation
- Freeway Traffic Control
- Road Traffic Control
- Advanced Traffic Control Algorithms
- ITS Case Studies.
- ITS: Emerging Challenges and Technologies

Registration Process and fee:

Overseas Participants: US\$ 200

Industry/ Research Organizations: Rs. 5000

Participants from Academic Institutions: Rs. 2000

Research Scholars/Students/Alumni: Rs. 1000 (Rs. 500 for SC/ST students)

After registration on GIAN portal <http://www.gian.iitkgp.ac.in/GREGN/index>, the candidates are advised to submit the prescribed fee in the form of DD in favor of "Registrar, DTU" payable at Delhi along with printout of online submitted application

form to Ashish Rajeshwar Kulkarni, Course Coordinator (GIAN), Department of Electrical Engineering, Delhi Technological University, Bawana Road, Delhi-110042 on or before 20.11.2017. The shortlisted participants will be informed through e-mail.

The above fee includes all instructional materials, computer use for tutorials and assignments and laboratory equipment usage charges. The course fee does not include boarding and lodging.

Who can attend?

Faculty, Research Scholars, M.Tech. Students, B.Tech. Students, Practicing Engineers from Industry may attend this course.

Course Coordinator:

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