Title : Convergence in Networks using the NGN

Abstract :

The NGN presents a new model for implementing convergence. It allows the wireless and wired communities to have a unified infrastructure for traffic, control, data bearer and services along with user mobility. The talk will discuss the evolution of the NGN and what it means to the eventual completely converged telecom network.

Biodata : Subrat Kar

Subrat Kar graduated with Honours in Electrical & Electronics Engineering from the Birla Institute of Technology & Science, Pilani in 1987. He holds a Doctoral Degree in Electrical Communication Engineering from the Indian Institute of Science, Bangalore (1991). He has been with the International Center for Theoretical Physics, Trieste as a Post-Doctoral Fellow (1991-1994). Presently he is a Professor at the Department of Electrical Engineering where he is also the Ram and Sita Sabnani Chair Professor. He was instrumental in establishing and heading (2006-2010) the *Bharti School of Telecommunication Technology & Management*, Indian Institute of Technology, Delhi which, as IIT Delhi's first ever School, runs M.Tech, MS, MBA and PhD (Engg) and PhD(Mgmt) programs. He also established and headed (2006-2010) the *Airtel IITD Centre of Excellence in Telecom (AICET)* in IIT Delhi which conducts programs in contract research, distance education, pre-incubation and super-internship programs. His research areas are in optical communication, switching, access technologies, telecom protocols, embedded systems and high speed networks. His research areas are in optical communication, switching, access technologies, telecom protocols, embedded systems and high speed networks. As a member of the Optoelectronics and Optical Communication research group, he works in the area of non-linear optical CDMA networks, free-space optical communication (ground-satellite and inter-satellite) and in ultra-fast optical LSI and fault-tolerant integrated optical switching architectures. His interests also involve formalisms in embedded system design, hardware-software co-design, telecom protocol design and verification tools for telecommunication protocols. He has designed and holds patents in the field of large-scale sensor networks, routing algorithms, macro languages, large scale repository design for sensor data and localization issues in sensor networks.