Panel Sessions

Evolutions in Mobility, Wired and Wireless Communications Networks

Abstract: Third generation (3G) mobile cellular systems are available for higher capacity than previous generations deployed in many countries around the world. Design and developments beyond 3G are aiming not only for higher capacity in terms of number of users but also for higher data rate applications. The issue becomes the agenda of debate for both academia and industry around the world. This panel, which consists of international researchers from both industry and academia, will discuss various important issues related to 3G and beyond. Fourth Generation (4G) wireless communications systems have been proposed because of its difficulty of Code Division Multiple Access (CDMA) technologies to achieve higher data rates and therefore, satisfy continuously ever increasing demand for data rates and bandwidth to meet multi-media user's requirements. With ever increasing in data rates, the output power of the air-interface must be increased and or the size of the cell has to be decreased to accommodate higher rates. These implementations introduce difficulties. 4G communications networks may require distributed architecture, End-to-End Internet Protocol (IP), and peer-to-peer networking. Coverage and Capacity could be adaptive and dynamically accommodate changes in user's patterns. Users could move automatically away from the congested routes to allow network to dynamically and automatically self-balance itself. Panel discussion also addresses the issues of security in the mobile and wireless IP. IP is dominating the next generation mobile and wireless technologies. Its security is becoming a major concern.

Professor Rifat R. Ibraimov, TUIT, Uzbekistan,
Dr. Vincent Guyot, LIP6 and ENST/France Telecom, France
Dr. Naser Manochehri, Sultan Qaboos University, Oman
Dr. Nazar Elfadil, Sultan Qaboos University, Oman
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Recent Advances in Telecommunications in Central Asia

Abstract: Wired and Wireless communications include Cellular and Optical networks. These technologies have dominated recent developments in central Asia. Apart from land lines their geographical and environmental locations, satellites are attractive to operate along Silk Roads to provide coverage in the regional areas. Recent projects, scenarios and their social implications will be discussed in this panel.

Panelist:
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