



PALESTRA

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Palestra: Dia 25/8/2010 das 11:00 às 12:00 – Sala H - 208

Evolution and Revolution in Wireless and Mobile Networks

Abstract - It is encouraging to see the fast development of the new wireless technologies promising the ultimate Internet service deployment on wireless and mobile infrastructures since they would offer larger bandwidth at cheaper price compared to the current telecommunication wireless radio resources. This presentation will provide a survey of the new Wi-Fi generation IEEE 802.11ac, ad, and af. We introduce new advances like virtual antennas and smart antennas and we compare the future Wi-Fi environment with future 4G generation (LTE Advanced). We show how 4G and Wi-Fi NG will compete in the long term by integrating all high-technologies within a unique environment. This talk will introduce these high-technologies in wireless networks like virtualization, green solution, intelligence, picocells, stochastic transmissions, near field communications, secure microcontroller.

Biography: Guy Pujolle received the Ph.D. and "Thèse d'Etat" degrees in Computer Science from the University of Paris IX and Paris XI on 1975 and 1978 respectively. He is currently a Professor at the Pierre et Marie Curie University (Paris 6) and a member of the Scientific Advisory Board of Orange/France Telecom. He spent the period 1994-2000 as Professor and Head of the computer science department of Versailles University. He was also Professor and Head of the MASI Laboratory (Pierre et Marie Curie University), 1981-1993, Professor at ENST (Ecole Nationale Supérieure des Télécommunications), 1979-1981, and member of the scientific staff of INRIA, 1974-1979.

Dr. Pujolle is the French representative at the Technical Committee on Networking at IFIP. He is an editor for International Journal of Network Management, WINET, Telecommunication Systems and Editor in Chief of the indexed Springer Journal "Annals of Telecommunications". He was an editor for Computer Networks (until 2000), Operations Research (until 2000), Editor-In-Chief of Networking and Information Systems Journal (until 2000), Ad Hoc Journal and several other journals. Guy Pujolle is a pioneer in high-speed networking having led the development of the first Gbit/s network to be tested in 1980.

Guy Pujolle is co-founder of QoS MOS (www.qosmos.fr), Ucopia Communications (www.ucopia.com), Ginkgo-Networks (www.ginkgo-networks.com), EtherTrust (www.ethertrust.com), Virtuor (www.VirtuOR.fr), and Green Communications (www.green-communications.fr).