



IEEE Vehicular Technology Conference 2003, Fall

October 4-9, 2003, Orlando, Florida

Conference Web site: <http://www.vtc2003.org/>

Call for Papers for a Symposium of the VTC 2003 - Fall conference: *Access Protocols and Scheduling for Wireless Systems*

Symposium co-chairs:

Prof. Romano Fantacci (University of Florence) and Dr. Giovanni Giambene (University of Siena)

Scope of this Symposium

Radio transmissions have opened new frontiers allowing the exchange of information with mobile terminals. From the first applications of telegraphy and radio broadcast, wireless transmissions have obtained a great success with the widespread diffusion of mobile communications up to the current third-generation mobile communication systems. The unique capabilities of new cellular systems are expected to provide users with multimedia applications. The air interface still represents the system bottleneck, by limiting the available user bit-rate due to both spectrum shortage and radio propagation impairments. This Symposium will be focused on the aspects related to the efficient management of radio resources in the presence of heterogeneous traffic classes and error prone radio channels. A particular emphasis will be given to novel adaptive solutions for both the access phase and the traffic scheduling in order to guarantee adequate *Service Level Agreements*.

This Symposium is addressed, but not limited to, the following research topics:

- Medium access control protocols for wireless systems
- Vertical integration in the management of protocols on the air interface
- Scheduling approaches for quality of service guarantee with multimedia traffics
- Stability analysis of access protocols
- Adaptivity in the resource management
- Energy-efficient access strategies
- Novel resource management techniques for 4G air interfaces
- Impact of traffic-self similarity on scheduling, resource allocation and system dimensioning
- Access schemes with adaptive transmission bit-rate
- Access schemes in networks with high propagation delays
- Services integration and user mobility management
- Access and scheduling schemes for hybrid networks
- Improved scheduling approached in 802.11 based networks
- Reliable communications over wireless links
- Radio channel influence on MAC protocols performance

Submission details: Online submission is available at the Conference Web site <http://www.vtc2003.org/> (*under Symposia*). Authors should submit a short abstract and an extended abstract (up to 2 pages), by specifying this symposium title on the electronic submission interface (EDAS system). Forms for submission are soft copy in MS Word or PDF formats. The submission must include the name, complete mailing address, telephone and fax numbers, and the email address of the author(s). For Conference details, please refer to the Conference Web site.

Deadlines

Extended abstract submission:	March 24, 2003 (12:00 midnight Eastern US standard time)
Notification of acceptance:	May 15, 2003
Final paper submission:	July 15, 2003