Call for Papers
IEEE Workshop on Adaptive Wireless Networks (AWiN)
December 3, 2004
(in conjuction with GLOBECOM 2004)

Wireless network characteristics inherently vary in time and space. Therefore it is imperative that wireless protocols and algorithms adapt themselves to these changes in order to maximize performance. For example there are ongoing efforts in improving data rates via adaptive modulation and coding in WCDMA and other next generation wireless standards. Higher mobile speeds and data rates, support for multimedia applications, battery power constraint, location dependent security, real-time access of mobile databases and other factors add to the challenges in designing adaptive wireless networks. Moreover, opportunities for adaptive wireless networking exist in several layers of the protocol stack. Adapting the protocols in individual layers and across layers to suit user traffic, channel state, congestion, security requirement, real-time constraint etc. is a big challenge being addressed by both industry and academia. The intent of this workshop is to present and discuss practical adaptive and real-time algorithms/protocols for wireless networks.

Paper submissions in the following as well as related topics are solicited: adaptive techniques for transmission and computational energy efficiency, online scheduling, competitive algorithms and competitive analysis of wireless protocols, dynamic game theory for wireless communications, channel adaptive power/rate control, randomized algorithms, online resource sharing for mobile computing, stochastic learning and stochastic approximation based algorithms, applications such as image/video transmission and sensor networks, online access of mobile database, adaptive wireless security and privacy.

Potential authors are invited to submit their manuscripts in http://edas.info. Manuscripts must be at mot 10 pages long in two-column IEEE format. All submitted papers will be reviewed by the technical program committee and other reviewers. All accepted papers will be published in the proceedings. Paper deadline is July 15. Acceptances will be made by Aug. 5, with final manuscripts due Aug. 27.

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