

Call for Articles for IEEE Computer

Ad Hoc Networking

IEEE Computer seeks articles for a special issue on Ad Hoc Networking, to appear in February 2004. The guest editors for this special issue are Jie Wu, Florida Atlantic University, and Ivan Stojmenovic, University of Ottawa.

Wireless networks and mobile computing research has until recently concentrated on single-hop networks (network nodes communicating directly to a fixed infrastructure), such as cellular and satellite systems. Ad hoc networking covers multi-hop scenarios (network nodes communicating via other network nodes) such as conference, hospital, battlefield, rescue, and monitoring scenarios. Particular ad hoc network systems include packet radio networks, sensor networks, personal communication systems, rooftop networks, and wireless local area networks. Even multi-hop cellular networks may be a viable option when a huge number of cellular phones are concentrated on a small area such as stadium.

This special issue will cover comprehensively data link, network and transport layers of ad hoc networks, as well as security, simulation and power management issues in sensor, local area, personal, and mobile ad hoc networks. Particular topics also include IEEE 801.11 and Bluetooth based medium access control, position discovery and management in ad hoc networks, clustering, routing, broadcasting, multicasting, quality of service, topology construction and maintenance in ad hoc networks.

The goal of the special issue is to publish original research and review articles which should be comprehensive to all readers, regardless of their specialty. Submissions should be limited to 6000 words (six to seven pages in the final magazine format), where each figure or table counts as 300 words, and the number of references is limited to 12.

The submission deadline is 31 May 2003. Send papers in pdf files to both jie@cse.fau.edu and ivan@site.uottawa.ca.