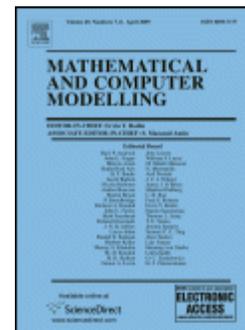


Mathematical and Computer Modelling Journal

Call for Papers

Special issue on: Recent Advances in Simulation and Mathematical Modeling of Wireless Networks



Wireless network technologies are undergoing rapid advancements. The last few years have experienced a steep growth in research on wireless networks having attractive claims. Researchers are currently envisioning different attractive properties of wireless systems such as the ability to self-organize, self-configure, self-heal, self-manage and self-maintain. Different wireless networks having the potential to offer cost-effective home and enterprise access networking solutions are being researched. Technologies such as Wireless Mesh Networks (WMNs), WiFi, WiMax, Bluetooth, 802.20, 802.22 and software defined radio are gaining popularity. Even though these technologies hold great promises for our future, there are several research challenges that need to be addressed. Some of these research challenges are attributed to the simulation, modeling and characterization of these emerging wireless networks. The attractive properties of these new network technologies make simulation and modeling particularly challenging, where the existing tools and approaches are marginally useful. The This Special Issue aims to publish high quality research papers relating to the recent advances in the simulation and mathematical modeling of different emerging wireless network technologies, with a further special focus on emerging wireless networks. Topics of interest include, but are not limited to:

- Cellular wireless networks
- Broadband wireless access networks
- Wireless Internet
- Software defined radio
- Bluetooth technology
- Ultra-wide band radio
- Emerging Ad Hoc and Sensor Networks
- Wireless Mesh Networks
- IEEE 802.11/802.20/802.22
- Emerging wireless network security issues
- Wireless telemedicine and e-health
- Emerging issues in 3G and 4G wireless networks
- Emerging wireless network architecture
- Multimedia over emerging wireless networks
- Underwater sensor Networks
- Supplying power to the distributed wireless sensors
- Very low-powered sensors
- Cooperative wireless communications
- Multi-hop relay wireless communications

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Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. Manuscripts should be submitted online at <http://ees.elsevier.com/mcm/>. It is important to choose article type as "Special Issue: Wireless Networks" when you reach the "Article Type" step during submission process. Please mention the special issue title in the covering letter. Until this is done, the paper will not be accepted for this Special Issue. General instructions for authors can be found at http://www.elsevier.com/wps/find/journaldescription.cws_home/623/description#description. Contributing authors might also be asked to review some of the papers submitted to this special issue.

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Publication Date: End of 2010 (tentative).