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Wireless Personal Communications

(Springer)

Special Issue on “Cross-Layer Design for Future Generation Wireless Networks”

With the rapid development of wireless technologies, the future generation wireless networks have more challenges for providing reliable and high quality end-to-end performance in wireless multimedia communications. Recently, a cross-layer design has become a popular topic in which more and more researchers are engaged. That leads to a lot of cross-layer design proposals for wireless networks. This special issue is intended to foster state-of-the-art research pertaining to cross-layer design in the area of future generation wireless networks. The emphasis of this special issue will be on cross-layer protocol interactions and design of cross-layer optimized techniques. The issue will focus on a range of future generation wireless networks cross-layer design related topics including network architectures, mobility management, session mobility, security mechanism, services, and novel applications associated with their utilization, and hybrid routing protocols for mobile wireless networks, e.g., cellular/WLAN/WiMAX/ad hoc networks. Submitted papers for this special issue are expected to focus on cross-layer design related to future generation wireless networks and to present novel results and solutions to solve various problems and challenges foreseen in future generation wireless networks. All submitted papers will be peer-reviewed. Final selection of papers will be based on their quality and relevance to this special issue as well as the journal. Papers submitted for consideration for this special issue must be written in English and describe original research not published or currently under review by other journals.

Topics

Topics of interest include but are not limited to following:

- Cross-layer architectures for wireless communications (3G, 4G, ad hoc networks, WLAN, or hybrid networks)
- Cross-layer Design, implementation and test-bed results
- Cross-layer end-to-end QoS support for wireless networks
- Cross-layer mobility management and session mobility
- Cross-layer secure mechanism for future generation wireless networks
- Application layer adaptation based on cross-layer notifications
- Complexity and scalability issues in cross-layer design
- Cross-layer design of MAC, RLC, and routing protocols in wireless networks
- Cross-layer adaptation for energy minimization in wireless networks
- Cross-layer design framework for real-time multimedia streaming

Submission Information

Authors should follow the *Wireless Personal Communications* Journal manuscript format described in the *Instructions for Authors* link on the journal site: www.springer.com/11277. Manuscripts (pdf and source files) must be directly emailed to the corresponding editor, **Prof. Yuh-Shyan Chen** at yschen@mail.ntpu.edu.tw (not via the *Online Manuscript Submission* system). The submission must include the title, abstract of your paper, and the corresponding author's name and affiliation. This special issue additionally collects best papers from *The International Conference on Mobile Technology, Applications and Systems* (Mobility 2008) (<http://www.mobilityconference.org/>), Taiwan, September, 2008.

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Paper Submission Deadline:

Paper Submission Deadline:	November 1, 2008
1st Notification of acceptance:	December 31, 2008
Submission due date of revised paper:	February 15, 2009
2nd Notification of acceptance:	March 31, 2009
Submission of final revised paper:	April 30, 2009
Publication date:	3rd or 4th Quarter, 2009 (Tentative)



<http://www.springer.com/journal/11277>

Wireless Personal Communications

An International Journal

Editor-in-Chief: R. Prasad

ISSN: 0929-6212 (print version)

ISSN: 1572-834X (electronic version)

Journal no. 11277

Springer US