

Call for Papers

Special issue on: Challenges in Next-Generation and Resource-Constrained Networks



Network technologies are undergoing rapid advancements. 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 networks having the potential to offer cost-effective home and enterprise access networking solutions are being researched. Concepts such as dynamic spectrum access, convergence, unified network architectures and seamless service access in heterogeneous networks are gaining widespread popularity. Technologies such as Wireless Mesh Networks (WMNs), WiFi, WiMax, Bluetooth, IEEE 802.20, IEEE 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. This Special Issue aims to publish high quality research papers relating to the recent advances in the challenges faced by next-generation and resource-constrained networks. Topics of interest include, but are not limited to the following:

- Next Generation Core Networks
- Next Generation Wired Access Networks
- Next Generation Wireless Access Networks
- Next Generation Cellular wireless networks
- Next Generation Network Services
- Next Generation Network Multimedia Support
- High-capacity Networks
- Resource-constrained networks
- Wireless Internet
- Software defined radio
- Ultra-wide band radio
- Emerging Ad Hoc and Sensor Networks
- Wireless Mesh Networks
- IEEE 802.11 / IEEE 802.20 / IEEE 802.22
- Emerging wireless network security issues
- Emerging issues in 3G and 4G wireless networks
- Emerging wireless network architecture
- Multimedia over emerging wireless networks
- Underwater Sensor Networks
- Underground Sensor Networks
- Cooperative wireless communications
- Multi-hop relay wireless communications
- Interoperability between high-capacity and low-capacity networks.

It should be emphasized that this Special Issue will be dedicated to only the emerging and next-generation communication network technologies. Authors are discouraged from submitting papers relating to technologies that have existed for long.

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Submission Details:

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 by e-mail to tsj.special@gmail.com. After sending your manuscript, if you do not get a confirmation of receipt of your submission within 2-3 business days, please resend your original e-mail. A guide for authors for preparing their papers can be accessed through <http://www.springerlink.com/content/101753/>. Contributing authors might be asked to review some of the papers submitted to this Special Issue.

Important Dates:

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First Acceptance Notification: April 1, 2010.

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