

Call for Papers

Feature Topic on **Mobile Cloud Computing**

Mobile Cloud Computing refers to an infrastructure where both the data storage and the data processing occur outside of the mobile device. Mobile cloud applications move the computing power and data storage away from mobile phones and into the cloud, bringing applications and mobile computing not only to smartphone users but also to a much broader range of mobile subscribers.

Cloud computing has emerged as the leading paradigm for cost efficient and reliable service provisioning. Today, the rich availability of energy-harvesting and resource-constrained mobile computing devices is beginning to converge with the great opportunity offered by the powerful cloud computing services hosted by virtualized data center resources. Although mobile applications, cloud computing, and data center networking techniques have been intensively investigated in the past couple of years, mobile cloud computing and mobile cloud networking have not raised the attention of the research community until recently. This Feature Topic precisely addresses recent advances in this aspect. Solicited topics include (but are not limited to):

- Mobile cloud computing architectures, protocols and services
- Energy efficiency in mobile cloud computing and networking
- Energy management for mobile devices in mobile cloud computing
- Resource and service management, scheduling, and migration in mobile cloud computing
- Mobile cloud applications and service models
- Mobile traffic characterization and measurements
- Transport and higher layers in mobile cloud computing
- Storage as Service in Mobile Cloud Computing
- Security, Privacy, access control
- Network on the fly, virtual control, virtual radio, isolation
- Virtualization of mobile devices and mobile network infrastructures
- Unified user and device mobility management
- Quality of Experience and Service Level Agreements
- Discovery of mobile cloud computing services, data and other resources
- Situation-/Context-aware networking for mobile cloud computing
- Exploring social networks and user collaboration for mobile cloud computing
- Location-based mobile cloud applications and service models
- Virtualization techniques for mobile cloud computing and services

- Security, privacy and virus/malware issues in mobile cloud computing
- Mobile cloud enabled Bring-Your-Own-Device (BYOD) solutions
- Personal cloud, ad hoc cloud, distributed cloud computing and service models
- Cloudlets, mobile cloud sensing and crowdsourcing

### **Submission Guidelines:**

Articles should be tutorial in nature and written in a style comprehensible to readers outside the specialty of the article. Authors must follow the *IEEE Communications Magazine's* guidelines for preparation of the manuscript. Complete guidelines for prospective authors can be found at <http://www.comsoc.org/commag/paper-submission-guidelines>.

It is very important to note that the *IEEE Communications Magazine* strongly limits mathematical content, and the number of figures and tables. Paper length should not exceed 4,500 words. All articles to be considered for publication must be submitted through the IEEE Manuscript Central site (<http://mc.manuscriptcentral.com/commag-ieee>) by the deadline. Submit articles to the "March 2015/Mobile Cloud Computing" category.

### **Important Dates:**

- Manuscript submission deadline: July 15, 2014
- Decision notification: October, 2014
- Final manuscript deadline: January 2, 2014
- Publication: March 2015

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