Special Issue on
“Mobile Clouds”
IEEE Transactions on Cloud Computing

*** Call for Papers ***

Mobile cloud computing represents one of the latest developments in cloud computing advancement. In particular, mobile cloud computing extends cloud computing services to the mobile domain by enabling mobile applications to access external computing and storage resources available in the cloud. Not only mobile applications are no longer limited by the computing and data storage limitations within mobile devices, nevertheless adequate offloading of computation intensive processes also has the potential to prolong the battery life.

Besides, there is also an incentive for mobile devices to host foreign processes. This represents a new type of mobile cloud computing services. Ad-hoc mobile cloud is one instance that mobile users sharing common interest in a particular task such as image processing of a local happening can seek collaborative effort to share processing and outcomes. Vehicular cloud computing is another instance of mobile cloud computing that exploits local sensing data and processing of vehicles to enhance Intelligent Transportation Systems.

Topics

This Special Issue will collect papers on new technologies to achieve realization of mobile cloud computing as well as new ideas in mobile cloud computing applications and services. The contributions to this Special Issue may present novel ideas, models, methodologies, system design, experiments and benchmarks for performance evaluation. This special issue also welcome relevant research surveys.

Topics of interest include, but are not limited to:

- Trends in Mobile cloud applications and services
- Architectures for mobile cloud applications and services
- Mobile cloud computing for rich media applications
- Service discovery and interest matching in mobile cloud
- Collaboration in mobile clouds
- Process offloading for mobile cloud computing
- Mobile device virtualization
- Mobile networks for cloud computing
• Mobile cloud monitoring and management
• Security and privacy in mobile clouds
• Performance evaluation of mobile cloud computing and networks
• Scalability of mobile cloud networks
• Software defined systems for mobile clouds
• Self-organising mobile clouds
• Mobile vehicular clouds
• Disaster recovery in mobile clouds
• Economic, social and environmental impact of mobile clouds
• Mobile cloud software architecture

**Important Dates**

• Paper Submission: July 30, 2015
• First Round Decisions: October 30, 2015
• Major Revisions Due: November 30, 2015
• Final Decisions: January 30, 2016
• Publication: 2016

**Submission & Major Guidelines**

This special issue invites original research papers that present novel ideas and encourages submission of “extended versions” of 2-3 Best Papers from the IEEE Mobile Cloud 2015 conference and IEEE ICC 2015 Workshop on Cloud Computing Systems, Networks, and Applications (CCSNA). Every submitted paper will receive at least three reviews and will be selected based on the originality, technical contribution, and scope.

Submitted articles must not have been previously published or currently submitted for publication elsewhere. Papers should be submitted directly to the IEEE TCC at https://mc.manuscriptcentral.com/tcc-cs, and must follow TCC formatting guidelines.

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