Overview:
Recently the cloud computing technology has emerged as a new information technology infrastructure for the fast developing IT industry. In cloud computing, information is permanently stored in large-scale data centers on the Internet all over the world and temporarily accessed and cached on clients including desktops and portable PCs, sensors, etc. With the “cloud” as a metaphor for the Internet, cloud computing promises to deliver massively scalable IT-enabled data, software, and hardware capabilities as a service to external clients with Internet accesses. And the highly scalable computation capability of the cloud data centers can further assist and accelerate most of our computation-intensive services and works effectively. Therefore the cloud computing has been envisioned as the key technology to achieve economies of scale in the deployment and operation of IT solutions.

Regarding recent advances in mobile communication technologies, a new wave of user demands for rich mobile service experience has been fueled. Mobile users always expect broadband Internet access wherever they go, interact with each other via social networks while moving; furthermore, they are seeking ubiquitous access to a wealth of media-based contents and services. Because mobile devices are resource-limited inherently, it is essential for the cloud to provide computational support for many media-rich applications. The combination of mobile media and cloud computing highly arises many technical challenges, and the fundamental tension between resource-hungry multimedia streams and power-limited mobile devices has to be resolved. The effort for providing a universal rich-media experience across any screen is typically hindered by the heterogeneity amongst ever-evolving mobile devices, as manifested in their different physical form factors, middleware platforms, and interactive functions. Furthermore the developments of innovative pervasive mobile services, e.g., mobile video streaming, rich media dissemination, surveillance, gaming, e-health care, etc., can be greatly facilitated by mobile cloud computing platforms employing emerged and emerging technologies.

In this special issue, we try to solicit research papers on system architectures, networking & communication protocols, multimedia streaming, rich media dissemination, surveillance, gaming, e-health care, etc., can be greatly facilitated by mobile cloud computing platforms employing emerged and emerging technologies.

The objective of this special issue is to bring together state-of-the-art research contributions, tutorials, and survey papers that address these key aspects of mobile cloud computing. Original papers describing completed and unpublished work not currently under review by any other journal/magazine/conference/special issue are solicited.

Topics
Topics of interest include, but are not limited to, the following scope:

- Multimedia mobile cloud service architecture and designs
- Multimedia mobile cloud data and storage architecture
- Data and information management for cloud service providers
- Cloud-assisted content delivery and search on mobile devices
- Distributed caching and sharing of media data by cloud computing
- Media cloud resource management
- Cloud-assisted content recommendation and pushing
- User-centric media adaptation in the cloud
- Information security, privacy, and fault tolerance issues for mobile cloud computing
- Cloud-based mobile audio/video streaming techniques
- Interactive services supported by cloud computing for mobile users
- Traffic offloading assisted by cloud computing for mobile users
- Content caching and prefetching with mobile cloud computing
- Scalable and flexible energy efficient techniques for data centers
- Protocols for data centers cooperation management and control
- Energy-efficient traffic balance, cooperation and management
- Experiments of mobile cloud computing simulation or implementation
- Cloud-based multimedia processing
- Interactive media rendering supported by cloud computing
- Quality of Experience (QoE) studies on mobile cloud service platform
- Designs for mobile cloud computing with other emerging techniques:

Important Dates:
- Manuscript submission deadline: July 1st, 2013
- Notification of acceptance: September 1st, 2013
- Submission of final revised paper: October 1st, 2013
- Publication of special issue: 1st Quarter, 2014

Submission Procedure:
Authors should follow the MONET Journal manuscript format at the journal site: http://www.springerlink.com/content/101750/. Manuscripts should be submitted on line through http://www.editorialmanager.com/mone/. A copy of the manuscript should also be emailed to the following email: minchen@ieee.org. The “Subject field” of the email must contain “MONET MCC Paper - ”.

Guest Editors:
Athanasios, V. Vasilakos (University of Western Macedonia, Greece, vasilako@ath.forthnet.gr)
Min Chen (Huazhong University of Science and Technology, China, minchen@ieee.org)
Yulei Wu (Chinese Academy of Sciences,China, wuyulei@cstnet.cn)