

Call for Papers

**On-Demand Computing:
Service Management, Network Monitoring, and Cloud Storage**

in

*The 9th International Wireless Communications & Mobile Computing Conference
(IWCMC 2013)*

<http://iwcmc.org/2013/>
<http://edas.info/newPaper.php?c=13371>

Cagliari, Sardinia, Italy, July 1-5, 2013

Workshop Chairs:

Dr. Ammar Rayes, Cisco Systems, USA, rayes@cisco.com

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Scope:

The recently witnessed success and fast-growing popularity of wireless mobile applications, services, and devices gave rise to a new set of unique networking challenges in mobility, resource management, QoS, network accessibility, protocol design, spectrum/bandwidth availability, and security. These challenges called for, and led to the emergence of, fundamentally new networking paradigms and solutions. Examples of these newly emerged paradigms are cloud computing, cooperative communication, big data storage and processing, cognitive network access, smart service management, and machine-to-machine (M2M) communication. The number of devices connected to the internet has already surpassed 8 billion and is expected to reach 30 billion in 2015. Service and network management systems and M2M protocols are becoming more complex by interconnecting different technologies and architectures across various software platforms. No single technology or architecture will be able to smoothly glue together such complex systems into a single network of all networks. New applications will be supported on these complex systems through upper layer middleware software platforms. These services will no longer be independent static sources of content, rather will have intelligent software to adapt those sources to varying network conditions, technologies, and platforms. This will be achieved through another intelligent layer of cognitive middleware that is capable of interfacing these services to the underlying network technologies. Devices must be capable of receiving information about the network and adaptively tuning their transport, network, and/or physical parameters according to the underlying networking conditions/technologies. New Services and contents will need to understand networking traffic parameters, and react accordingly in order to maintain smooth traffic flows in the network and avoid skewness behaviors.

This workshop seeks original, previously unpublished papers proposing technical contributions and solutions that promote next-generation mobile networking and communication paradigms, ranging from theory to practice, from architecture to algorithms, and from policy to management. Networking paradigms to be covered in this workshop include:

- Machine-to-machine communication

- Smart services and resource management
- Cloud computing
- Cooperative and cognitive networking
- Big data storage, processing, and analysis

Topics to be covered in this workshop, which address the above networking paradigms, include:

- Performance characterization and analysis
- Mobility models
- Algorithmic and protocol designs
- Interference management
- Architectures and platforms
- Distributed resource allocation and scheduling techniques
- Multimedia support and QoS management
- Application platforms and middleware
- Multiple access techniques
- Routing techniques
- Traffic and load balancing
- Service oriented architectures
- Interoperability and handoff techniques
- Network monitoring and management
- Cross-layer designs and techniques
- Autonomous network and system management
- Energy aware protocols and techniques
- Security, robustness, and reliability
- Machine learning and self-adaptive techniques
- Pricing models and regulatory policies
- Experimental prototyping and test-bed evaluation
- Resource and service management and control

Submission Guidelines:

Prospective authors are invited to submit original technical papers—up to 6 pages of length, using the EDAS link <http://edas.info/newPaper.php?c=13371> for possible publication in the IWCMC 2012 Conference Proceedings, which will be included in IEEE Xplorer. Selected papers will be further considered for possible publication in three special issues in the following Journals:

1. Wiley Journal of Wireless Communications and Mobile Computing (WCMC)
<http://www3.interscience.wiley.com/journal/76507157/home>
2. The International Journal of Sensor Networks (IJSNet)
<http://www.inderscience.com/browse/index.php?journalCODE=ijsnet>
3. The International Journal of Autonomous and Adaptive Communications Systems (IJAAACS): www.inderscience.com/ijaacs
4. KSII Transactions on Internet and Information Systems: www.itiis.org
5. Peer-to-Peer Net. & Applications, A springer Journal
<http://www.springer.com/engineering/signals/journal/12083>

Note: There will be best paper award, best Symposium award and best Workshop award.

Important Dates:

Submission: December 15, 2013

Acceptance notification: March 15, 2013

Camera-ready paper submissions: April 1, 2013

Registration deadline for authors: April 1, 2013

TPC Members: to be added.