

Call for Papers
First International Workshop on
**Cloud Technologies and Energy Efficiency
in Mobile Communication Networks
(CLEEN 2013)**

How cloudy and green will mobile networks and services be?

In conjunction with VTC 2013 fall, 2-5 September 2013, Las Vegas, USA

<http://www.ict-ijoin.eu/cleen2013/>

Scope and Objectives:

This workshop explores novel concepts to allow for flexibly centralised radio access networks using cloud-processing based on open IT platforms, to allow for a high quality of experience for mobile access to cloud-processing resources and services, and to allow a future network evolution focused on energy efficiency and cost-effectiveness. In fact, all future innovative network solutions will be conceived and deployed with a long term perspective of sustainability, both in terms of energy consumption of mobile network (and related interoperability with terminals) and cost efficiency of the different deployment and management options. This requires new concepts for the design, operation, and optimization of radio access networks, backhaul networks, operation and management algorithms, and architectural elements, tightly integrating mobile networks and cloud-processing. This workshop will cover technologies across PHY, MAC, and network layer, it covers technologies which translate the cloud-paradigm to the radio access and backhaul network, and analyse all the network evolutions from the energy efficiency perspective. It will study the requirements, constraints, and implications for mobile communication networks, and also potential relationship with the offered service, both, from an academic and industrial point of view.

We solicit original submissions in the following areas:

- Centralized / decentralized PHY and MAC processing
- Flexible assignment of functionality in mobile networks
- Joint operation and optimization of radio access and backhaul networks for cloud-based mobile networks
- Integration of cloud-services into green heterogeneous wireless networks
- Management of cloud-based/cloud-operated heterogeneous networks providing access to cloud-services
- Energy efficiency vs. QoS vs cost-efficiency trade-offs
- Architectural evolution of mobile networks
- Cost effective deployment strategies for evolved heterogeneous wireless network
- Service and energy management aspects of cloud-based mobile networks
- Storage and computation capability of small cells
- Resource allocation techniques; interference analysis, avoidance, and mitigation for heterogeneous networks
- Testbeds and performance evaluation for cloud-based mobile communication networks

Important Dates:

Paper Submission: ~~May 27, 2013~~ June 7, 2013

Acceptance Notification: ~~June 1, 2013~~ June 10, 2013

Camera-Ready: ~~June 10, 2013~~ June 17, 2013

Workshop: September 2-5, 2013

Submission Guidelines:

Papers need to be uploaded to the [TrackChair page](#) (*), should be in English, not exceeding 5 two-column A4 pages, and should follow standard IEEE conference templates available [here](#) (**). Accepted papers will be published in IEEE Xplore. They will be presented either orally or by means of a poster.

Organising Committee:

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- Dario Sabella (Telecom Italia, Italy)
- Emilio Calvanese Strinati (CEA LETI, France)
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- Zdenek Becvar, CTU, Prague
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(*) <http://vtc2013fall-wksp.trackchair.com/track/1152>

(**) http://www.ieee.org/conferences_events/conferences/publishing/templates.html