



## 2nd ACM Workshop on: “High Performance Mobile Opportunistic Systems” HP-MOSys 2013

### IMPORTANT DATES:

**Paper Submission: 15th June, 2013**  
**Author Notification: 8th July, 2013**

### Workshop Chairs

Constandinos Mavromoustakis,  
University of Nicosia, Cyprus

Lei Shu, Osaka University, Japan

Tasos Dagiuklas, Technological  
Educational Institute of Mesolonghi-  
Greece

### Steering Committee members

Tasos Dagiuklas, Department of Tele-  
communications and Network Systems,  
Technological Educational Institute of  
Mesolonghi-Greece

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sity of Nicosia, Cyprus

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Kingston University London, UK

Jonathan Rodriguez, Instituto de Tele-  
comunicações, Portugal

Lei Shu, Guangdong University of Petro-  
chemical Technology, China

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Complete list can be found on :

[http://www.cs.unic.ac.cy/cmavrom/  
HPMOSys13/](http://www.cs.unic.ac.cy/cmavrom/HPMOSys13/)



## CFP for the 2nd ACM Workshop on “High Performance Mobile Opportunistic Systems” HP-MOSys 2013



*To be held in conjunction with  
The 16th ACM International Conference on Modeling, Analysis  
and Simulation of Wireless and Mobile Systems  
November 3-8 2013, Barcelona, Spain in cooperation with R8 IEEE*

**Description of workshop:** Opportunistic networks are an emerging networking paradigm where communication between the source and destination occurs on-the-fly and depends on the availability of communication links. Opportunistic communication paradigm heavily benefits from the heterogeneous networking and communication infrastructure that currently exist, e.g., mobile networks, P2P networks, with the supporting technologies in data management and system interoperability.

Motivated by further examining recent advances in this field and promoting the optimization of the existing methodologies and/or approaches, as well as presenting efficient high performance techniques for extending the survivability of such systems, both in terms of performance and reliability, we are interested in organizing this workshop with the following primary objectives:

§ Explore new and innovative ideas and improvements of opportunistic networks that can affect the overall performance of the system;

§ Explore the impact of wireless mobility and resource management in order to offer high performance and resource availability in today's computing systems.

Original research contributions in all areas of High performance Mobile Opportunistic Systems and/or applications are welcome.

Particularly the papers aim to present work in the following topical areas:

- \* resource management (failure-aware, high-availability, efficiency, reliability, fault tolerance, etc.)
- \* data management (data gathering and fusion, aggregation, dissemination, source coding, signal processing, etc.)
- \* cooperative and opportunistic algorithms (cooperative PHY, relays, distributed signal processing, etc.)
- \* key functionalities (security, localization, privacy and authentication, self-\*, synchroni- zation, etc.)
- \* novel protocols (PHY level, MAC level, routing aspects, congestion and admission control, communication networking paradigms, etc.)
- \* self-adaptiveness (self-organization, self-stabilization, autonomic computing ap- proaches, etc.)
- \* cross-layer and cross-functionality designs (channel coding, cross-layer interaction, protocols for cross-layering, etc.)
- \* performance evaluation and limitation (network capacity, metrics and new schemes' evaluation through real-time or simulation, etc.)
- \* opportunistic storage (backup techniques, autonomic- management of storage, location- aware caching, etc.)
- \* energy consideration (optimization of energy-efficient protocols/algorithms, energy- efficient MAC, routing and cross-layer protocols, adaptive protocols, innovative power control techniques, novel applications, scalability issues, etc.)
- \* mobility models (mobility modeling, management and optimization, mobility effects, efficiency, conceptual models and applied certain patterns, human mobility, mobility aware protocols, service portability, etc.)
- \* implementation case studies (i.e. WSN, Ad-hoc, HAPs, etc. )
- \* simulation frameworks (tools, designs, module support and integration, novel perform- ance analysis etc.)



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This CFP is located at : <http://www.cs.unic.ac.cy/cmavrom/HPMOSys13/>