

## Call for Papers

The Sixth ACM SIGACT/SIGMOBILE International Workshop on  
FOUNDATIONS OF MOBILE COMPUTING (DIALM-POMC)

September 16, 2010, Cambridge, Massachusetts, USA

<http://dialm-pomc2010.engineering.asu.edu>

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**SCOPE:** Mobile computing and communications devices will have an enormous impact on our lifestyle over the next several decades as the true integration of personal computing, distributed computing, cellular technologies and the Web becomes the reality. In the light of continuously increasing interaction between communication and computing, there arise a number of interesting, and difficult algorithmic issues in diverse areas including coverage, mobility, routing, cooperation, capacity planning, scheduling, and power control.

This workshop is devoted to cover contributions in both the design and analysis of discrete and distributed algorithms and the system modeling in the context of mobile, wireless, ad-hoc, and sensor networks. In particular, it aims at bringing together the practitioners and theoreticians of the field and is intended to foster cooperation among researchers in mobile computing and researchers in discrete and distributed algorithms. DIALM-POMC 2010 will be held in September in Cambridge, MA, USA, and will be co-located with the 24th Symposium on Distributed Computing (DISC 2010). Previous DIALM-POMC workshops had been co-located with the International Conference on Mobile Computing and Networking (MOBICOM) and the International Conference on Principles of Distributed Computing (PODC).

Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. Contributions are solicited in all areas related to mobile and wireless computing and communications where discrete algorithms and methods are utilized. Specific topics include, but are not limited to:

- Channel assignment and management
- Energy saving methods and protocols
- Routing, multicast and broadcast
- Gossiping, information diffusion
- Scheduling
- Synchronization and discovery
- Emerging networks, including cognitive, delay-tolerant, ad hoc and sensor networks
- Localization and location tracking, handover/handoff
- Network protocols: design, optimization, and analysis
- Local Algorithms, algorithms with incomplete knowledge
- Distributed optimization algorithms
- Dynamic networks, dynamic graph algorithms
- Selfish behavior, incentives, and cooperation
- Modeling
- MAC layer protocols
- Network capacity
- Autonomous agents, mobile robot networks
- Location- and context-aware distributed systems
- Cryptography and security

**SUBMISSION:** Authors must submit their papers electronically, following the guidelines available on the DIALM-POMC web page. Papers for regular presentation must be no longer than ~~10~~ 12 pages on letter-size paper using at least 11-point font, including figures, tables and references. Additional details may be included in a clearly marked appendix, which will be read at the discretion of the program committee.

**PUBLICATION:** The selection of presentations will be based on peer-review by program committee members. Papers will be included in the workshop proceedings. Selected accepted papers will be invited for a special issue of the Journal of Ad-Hoc Networks, Elsevier.

### IMPORTANT DATES

- Paper submission due (EXTENDED): ~~July 3, 2010~~ **July 9, 2010, 11:59pm PDT**
- Notification of acceptance (NEW): ~~August 10, 2010~~ **August 12, 2010**
- Workshop date: September 16, 2010