

## PRELIMINARY ANNOUNCEMENT and CALL FOR PAPERS



# Dial M – POMC 2004

## The Second ACM/SIGMOBILE Annual International Joint Workshop on Foundations of Mobile Computing

October 1, 2004 • Philadelphia, Pennsylvania, USA

<http://www.ece.neu.edu/conf/dialm-pomc-04>

In cooperation with ACM SIGACT



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DIAL M-POMC, the Joint Workshop on Foundations of Mobile Computing, will be co-located with ACM MobiCom 2004 in Philadelphia, PA.

DIAL M-POMC is devoted to discrete algorithms and discrete modeling in the context of mobile and wireless computing and communications. It is intended to be a lively meeting, covering many of the algorithmic and discrete aspects of this field ranging from operations research to radio engineering problems. In particular, it aims at fostering the cooperation among practitioners and theoreticians of the field.

DIAL M-POMC 2004 is sponsored by ACM SIGMOBILE in cooperation with ACM SIGACT. This workshop is a merging of two workshops: DIAL M (Discrete Algorithms and Methods for Mobile Computing and Communications), which was held annually from 1997 to 2002 as a workshop in conjunction with ACM/SIGMOBILE MobiCom; and POMC (Principles of Mobile Computing), which was held in 2001 in conjunction with the ACM/SIGACT and SIGOPS Symposium on Principles of Distributed Computing (PODC), and in 2002 in conjunction with the ACM International Symposium on Distributed Computing (DISC).

*DIAL M-POMC 2004 will be composed of invited and peer-reviewed contributed talks.*

**SCOPE:** Mobile computing and communications devices will have an enormous impact on our lifestyle over the next several decades. The mobility of distributed computing components raises a number of interesting, and difficult, algorithmic issues. This workshop is devoted to discrete algorithms and methods in the context of mobile and wireless computing and communications. The workshop is intended to foster cooperation among researchers in mobile computing and researchers in discrete and distributed algorithms.

**PAPERS:** All submitted papers will be rigorously reviewed by technical program committee members. Accepted papers will be published in the workshop proceedings. Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited.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:

- Distributed algorithms
- Frequency allocation
- Cryptography and security
- Wireless networks
- Handover
- Routing, multicast and broadcast
- Scheduling
- Synchronization
- Dynamic graph algorithms
- Telecommunications
- Energy saving methods and protocols
- Modeling
- Discrete algorithms
- Ad hoc and sensor networking
- Localization and location tracking
- Error correcting codes
- Protocol optimization
- Satellite communications
- Site allocation
- Dynamic networks
- Mechanism design
- Cooperation enforcement
- Complexity analysis of algorithms for mobile environments

**SUBMISSION INSTRUCTIONS:** All paper submissions will be handled electronically (see the conference web page for details). Authors should prepare an electronic version of their full paper. Papers must not exceed 10 pages (US Letter size, 8.5 x 11 inches) including text, figures and references. The font size must be at least 10 points.

### IMPORTANT DATES:

Paper submissions due:  
**June 24, 2004**

Notification of acceptance:  
**July 23, 2004**

Camera-ready version due:  
**August 4, 2004**

