Call for Papers
The 10th ACM International Workshop on Foundations of Mobile Computing (FOMC 2014)
August 11, 2014, Philadelphia, PA, USA
http://fomc2014.cs.drexel.edu

Overview: With the ubiquity of mobile communication devices in our daily lives, mobile computing has emerged as an important new field in computer science. This increasing interaction between mobility, communication, and computing has generated a number of challenges in diverse areas, including coverage, mobility, routing, cooperation, capacity planning, scheduling, and power control. The Foundations of Mobile Computing (FOMC) workshop is dedicated to these issues. It covers contributions both in the design and analysis of discrete/distributed protocols, and in the system modeling of mobile, wireless and similarly dynamic networks. It aims to bring together and foster cooperation between practitioners and theoreticians.

Details: FOMC 2014 will be held on August 11, 2014 in Philadelphia, PA, USA, and will be co-located with the 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2014). Previous workshops (under the name DIALM-POMC through 2010) have been co-located with the Annual Symposium on Principles of Distributed Computing (PODC), the International Conference on Mobile Computing and Networking (MobiCom), and the International Symposium on Distributed Computing (DISC). Submissions can be submitted to one of two tracks:

1. The regular paper track solicits technical papers describing original, previously unpublished research, not currently under review.
2. The position paper track solicits descriptions of creative and compelling new research directions concerning the convergence of discrete/distributed algorithms and mobile computing.

Topics: FOMC covers all areas related to mobile and wireless computing and communications where discrete algorithms and methods are used. Topics include, but are not limited to the following:
• Models of mobility and dynamic networks, and algorithms of mobility including: autonomous agents, population protocols, natural algorithms, dynamic graph algorithms, local algorithms, distributed optimization
• Game-theoretic and economic aspects of mobility
• Cryptographic and combinatorial methods for mobility
• Gossipping and information diffusion
• Communication protocols, including routing, multicast and broadcast
• Scheduling and network capacity
• Data link protocols: MAC, channel allocation, cognitive radio networks
• Topology discovery, localization and clock synchronization
• Location- and context-aware distributed applications, sensor networks
• Emerging networks, including delay-tolerant networks, mobile social applications, vehicular networks
• Fault tolerance and security
• Energy saving methods and protocols

Submission: Authors must submit their papers electronically, following the guidelines available on the FOMC web page. Submissions should use letter-size paper with at least 11-point font and 1-inch margins, and no longer than 10 pages for the regular paper track, and no longer than 6 pages for the position paper track. The page restrictions do not include 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.