

# IEEE ICMAN Workshop

(In conjunction with IEEE PerCom 2007)

White Plains, NY, March 19-23, 2007

## Important Dates:

Paper Submissions: Sept. 29, 2006

Notification: Nov. 22, 2006

Final Version: Dec. 22, 2006

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## CALL FOR PAPERS

For close to quarter of a century, mobile communication has experienced an explosive growth, especially in the last decade or so. In particular, one area of mobile communication networks, the ad hoc networks, has attracted significant attention due to its challenging research problems. The ad hoc networks technology has spun off new research areas, such as mesh-based mobile networks and sensor networks. What characterizes nearly all of those mobile technologies is that during the exchange of information between the source and destination terminals, there exists a set of links which constitutes an end-to-end path over which the information can be exchanged. However, in some application scenarios, the connectivity between the mobile terminals does not always allow for creation of such a path. This could be due to very sparse network conditions (low node density) or due to unstable connectivity conditions (interference, fading, etc). Thus, in such scenarios, it would be often difficult, or even impossible, to form a well-connected mesh network for transmitting data through established end-to-end connections. In fact, even if there temporarily exists a path in the network for some portion of the communication, it is likely that the terminals will only be intermittently connected due to mobility. A simple example is that in a WLAN environment, mobile users may be connected to an AP for a while before moving out of its coverage, and then getting connected to a different AP. More examples are found in environments without access to infrastructure at all.

In this workshop we aim to explore novel research issues related to **Intermittently Connected Mobile Ad hoc Networks (ICMAN)**, which encompasses the scope of delay or disruption tolerant networks (or DTN), and bringing together state-of-the-art contributions in this emerging area.

Topics of interest include but are not limited to:

- New architecture design
- Novel transport and routing protocols
- Reliability and fault tolerance
- Energy, processing power and storage requirement
- Mobility modeling and mobility management
- Localization and node synchronization
- Security, privacy and incentives for co-operation
- Resource allocation and QoS support
- Performance analysis and evaluation
- Delay-tolerant applications
- Testbed implementation and experimental results

**Paper submission:** Papers are solicited in the IEEE proceedings format with up to eight (8) pages. Blinded submissions in PDF format must be sent to [wu@cacs.louisiana.edu](mailto:wu@cacs.louisiana.edu) no later than September 29, 2006. Please include the authors' names and affiliations in the email body only. You will receive a confirmation within 24 hours. All submissions must be original prior unpublished work and not under review elsewhere. All papers will be reviewed blindly and selected based on their originality, merit, and relevance to the workshop. Accepted papers must be presented at the workshop, and will appear in the IEEE PerCom workshop proceedings. Please email [wu@cacs.louisiana.edu](mailto:wu@cacs.louisiana.edu) if you have any questions.

**Workshop web site:** <http://www.cacs.louisiana.edu/~wu/ICMAN/>.

