

MANIAC Challenge



“Are you MANIAC enough...”



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Sponsor:



...For the 2007 Mobile Ad Hoc Networking Interoperability And Cooperation (MANIAC) Challenge?

The objective of the Challenge is to stimulate experimentation in wireless networking through:

Deployment of a large-scale MANET

Much of the research on mobile ad hoc networks (MANETs) has focused on simulation and test-bed studies, while plans for actual deployment of large-scale MANETs remain limited primarily to military and single-vendor public safety applications. There is uncertainty, in fact, as to whether a large-scale distributed ad hoc network created with hardware and software from many different vendors and controlled by many different administrative entities is even viable.

Come be a node!

Evaluation of MANET node participation strategies

The emergence of software-defined radios and, eventually, cognitive radios, may bring efficiencies in the use of spectrum and ultimately yield greater throughput, but the use of such radios in an ad hoc environment also opens new questions with regards to interoperability and cooperation among nodes in the network: will users trade off bandwidth, signal strength, or speed to ensure system effectiveness? If so, how? What are the incentives that will get users to provide services (such as routing) to other nodes? This wireless networking competition will investigate these questions and provide a one-of-a-kind opportunity to study actual, uncontrolled, ad hoc networks, where users make their own decisions regarding trade-offs between self-interest and common network goals.

Do you have the winning strategy?

Demonstration:
IEEE INFOCOM 2007
Anchorage, Alaska
May 6-12, 2007

Competition:
IEEE GLOBECOM 2007
Washington, DC
November 26-30, 2007

****2008 Challenge Time and Location TBD***

Assemble your team today! For information on how to participate go to: www.maniacchallenge.org

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