

2009 Mobile Ad-hoc Networking Interoperability and Cooperation (MANIAC) Challenge

The MANIAC Challenge is an NSF-funded competition to better understand cooperation and interoperability in ad hoc networks. The 2nd MANIAC Challenge will be held on March 8-9, 2009, in conjunction with IEEE PerCom in Galveston, Texas.

At the MANIAC Challenge, competing teams of students/researchers come together to form a large ad hoc network. The organizers generate traffic destined to each team. Each team can program its own cooperation strategy in the network, dynamically making forwarding and routing decisions. Teams are judged based on how much of the traffic destined to them makes it through the network, how little energy they consume in forwarding traffic, and a subjective evaluation of the quality of their strategy design. To get their traffic across the network, each team must rely on other teams' willingness to forward traffic for them.

To participate, the first step is to check out our website at www.maniacchallenge.org. There you will find the software you need to download, how to get technical support, detailed description of the rules, photos from the 2007 MANIAC Challenge, etc. Hardware requirements are simple: commodity laptops and IEEE 802.11 cards.