

# **MODELING, SIMULATION AND APPLICATION OF WIRELESS, MOBILE ADHOC NETWORK**

Summary – Modeling and simulation are traditional methods used to evaluate wireless network design. This paper addresses issues associated with modeling, simulation and application of wireless, mobile, and ad hoc networks. The basic characteristics and major issues pertaining to MANETs' modeling and simulation are introduced. The focus is on wireless transmission and mobility models. Particular attention is paid to the MobASim system, a Java-based software environment for parallel and distributed simulation of mobile ad hoc networks. We describe the design, performance and possible applications of presented simulation software.