

## **SIMULATION OF TRANSPORT PROTOCOLS OVER MOBILE NETWORK**

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### **Abstract**

In this paper, we describe a general-purpose communication network simulator that we designed to examine the performance of transport protocols over mobile networks. The general-purpose simulator can be used to study various aspects of performance of communication networks. In particular, we use it to examine, evaluate and predict the performance of mobile networks under a variety of the most commonly used transport protocols. We also examine the use of newly suggested protocols specifically designed for mobile networks. In this paper, we present our models for each protocol. We discuss various performance measures that can be studied using our simulator. These measures are hard to evaluate with analytical models.