

# Characterizing the Social Behavior of People through Experimentation

**Author(s) - Institution(s):**

Colian Gianni, UNIBO

Chiara Buratti, UNIBO

Roberto Verdone, UNIBO

**Corresponding author email:** c.buratti@unibo.it

**Corresponding WG group:** WG3

**Abstract:**

Delay Tolerant Networks (DTN) are an emerging communication paradigm. In a DTN messages are transmitted in a carry-store-forward fashion via multihop from node to node. In a DTN, usually, nodes are mobile: they can be smartphones or devices installed on buses and cars. DTNs exploit user's mobility in order to deliver messages. In particular, DTN nodes are carried by people with a certain social behavior which affects their mobility (e.g., workers tend to move from home to office on a daily basis). This explains the need of studying social habit of people. In this paper we show an experiment carried out at EuCNC'15 focused on the characterization of social behavior and mobility of attendees to a conference. We will also show the impact of Inter-Contact-Time on the design of a routing protocol for DTN comparing real mobility traces and traces obtained assuming of exponentially distributed ICT, as often accepted in literature.