

ABSTRACT**Transmission method in an ad hoc multi-hop IP network**

The transmission method according to the invention includes transmitting a message from a source transmitting node to a final receiving node through a series of hops from a transmitter node to an immediately following receiver node, using:

a) a reliability management mechanism including applying a retransmission law of the message on the hop, from the transmitting node to the receiving node, said law including message non-retransmission rules leading to the non-retransmission of the message,

b) a mechanism for managing congestion of the nodes providing for a limitation of the throughput (λ) for sending from a transmitting node to a receiving node following congestion information from the receiving node sent to the transmitting node, said mechanism being applied only hop-by-hop, the congestion information only being transmitted from a receiving node to a transmitting node over a same hop to limit the throughput of only the transmitting node toward only the receiving node.

Figure 1