Security and trust are two inevitable concepts for secure MANET. There are various systems used for ensuring security and trust in case of MANET. These systems have several advantages as well as several disadvantages in terms of high communication and computation overhead. In this proposed trust-based system, trust is evaluated on the basis of detection of signal noise and after that reduction of noise as much as possible with the help of Alpha Beta Filter as well as Kalman filter once the signal is flowing from one node to another node. In this paper, it is also able to show that using Kalman filter is more advantageous than alpha beta filter for reducing the error due to noise.

References


**Index Terms**

Computer Science | Signal Processing

**Keywords**

Alpha Beta Filter, MANET, Kalman Filter, Security, signal Noise, Trust