Abstract

Today wireless sensor network has become a primal technology for different kinds of resourceful environment. Sensor node localization specifying where a given sensor node is physically or relatively located is extremely crucial for majority of the programmes in wireless sensor networks. Localization has been key out as one of the leading subject in Wireless Sensor Network (WSN). Many localization algorithms have been proposed for wireless sensor network. In the present work we first review and estimate the shortcomings of the self-positioning existing DV-HOP algorithm i.e. its localization error and accuracy. Finally, a more precise positioning modified DV-HOP algorithm has been presented. The work has been simulated in MATLAB.

References


Index Terms

Computer Science Wireless

Keywords

Wireless networks; localization; sensor network; DV-Hop; MATLAB; error estimation