An Improved Approach for AOA/TOA using Linear Regression

Abstract

There are various techniques which are previously proposed and implemented are available. These methods promise to calculate, AOA (Angle of Arrival) and TOA (Time of Arrival) accurately. Therefore, in order to design new method numerous of techniques and methods analyzed. To improve existing techniques for AOA (Angle of Arrival) and TOA (Time of Arrival), a new predictive technique is proposed. The proposed location estimation method uses mathematical expressions and statistical analysis based technique, which consume previous location pattern data and predict new position for mobile station (MS). This predictive technique is implemented using TCL scripts and NS2 simulation environment. Which is compared with previously available distance weighted method.

References

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**Index Terms**

Computer Science  Wireless

**Keywords**

AOA (Angle of Arrival)  TOA (Time of Arrival)  Mobile station (MS).