

# **Abstract**

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## **An Improve Performance Location RFID Algorithm using 3-D Virtual LANDMARC Base on Passive Tag Technology**

Radio Frequency Identification (RFID) that enables tracking of people and objects indoor. 3-D LANDMARC has many problems but the 3-D Virtual LANDMARC can overcome the draw backs of 3-D LANDMARC like additional cost , improve the Localization accuracy , the problem of Radio Signal , the effect of reference Tags and without additional real Tags and Readers. Numerical Simulation Result show that the proposal algorithm is very simple and it gives higher location accuracy showed that enhances the precision of indoor localization the new k-nearest algorithm can provide better performance than the old one used in 3-D LANDMARC.