

Orientation of Rotating Platforms on Mobile Vehicles by GNNS

Authors : H. Imrek, O. Corumluoglu, B. Akdemir, I. Sanlioglu

Abstract : It is important to be able to determine the heading direction of a moving vehicle with respect to a distant location. Additionally, it is important to be able to direct a rotating platform on a moving vehicle towards a distant position or location on the earth surface, especially for applications such as determination of the Kaaba direction for daily Muslim prayers. GNNS offers some reasonable solutions. In this study, a functional model of such a directing system supported by GNNS is discussed, and an appropriate system is designed for these purposes. An application for directing system is done by using RTK and DGNS. Accuracy estimations are given for this system.

Keywords : GNNS, orientation of rotating platform, vehicle orientation, prayer aid device

Conference Title : ICAMMM 2016 : International Conference on Applied Mechanics, Materials, and Manufacturing

Conference Location : Jeddah, Saudi Arabia

Conference Dates : January 26-27, 2016