A Review of some Pure-Pursuit based Path Tracking Techniques for Control of Autonomous Vehicle

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 135

Number 1

Year of Publication: 2016

Authors:
Moveh Samuel, Mohamed Hussein, Maziah Binti Mohamad

10.5120/ijca2016908314

Abstract

This paper gives a brief review of few common path tracking techniques used in the design of autonomous vehicles. Technique such as pure-pursuit, vector pursuit as well as CF-pursuit which are all based on the pure-pursuit techniques were discussed and a detailed comparison was made between these geometric techniques. Also this review work discusses areas were little research has been done. Areas such as tracking of an implicit part of a mobile robot and proposes an area where feature research can be done such as tracking of both implicit and explicit path for a non-holonomic mobile robot.

References


979-983.

Index Terms

Computer Science  Control Systems

Keywords

Autonomous vehicle, path-tracking, pure-pursuit, sensors, controller, implicit, explicit.