Abstract

In this paper we study aerospace vehicle motion in three dimensions. We formulate three
degree of freedom kinematic equations of motion using pure pursuit guidance method, which is
known as path planning algorithm and it was stretched well beyond its intended usage by many
aerospace applications also it is used to accomplish goal-seeking and path tracking. we solve
the kinematic three degree of freedom equations of motion by numerical integration to make
simulation using Matlab program.

References

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**Index Terms**

Computer Science Information Sciences

**Keywords**

pure pursuit, guidance method, analytical form, numerical solution, mathematical model