Abstract

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Ant colony optimization algorithm for UAV mission planning path is the key technology for UAV, this is main focus subject of UAV research. We study and investigate a new search method: ant colony optimization algorithm to solve the problem of the UAV mission planning in three-dimensional space, and planning the shortest path in flight route to make the rescue task much easier.

The core part of a Fire control system is computer. We designed artillery, missiles and other weapon control signal, in order to control the artillery and missile firing.

We use the the Matlab to simulate missile flight path. We also use the physical characteristics and parabolic equations of weapon system, through Matlab program to simulate the 2D and 3D trajectory path, in order to achieve very accurate and precised calculation.
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