**Advantage and Disadvantage Analyzes**

Throughout the entire modeling and optimization procedure, we utilize numerous reasonable and prevailing methods to address the problems, taking into account various factors, including the accessibility, economy, feasibility, security, sustainability, etc., which allows the strength far outweighs the drawback.

First, we set up a three-dimensional coordinate system as well as lead in the matrix to express and explain the issue conveniently and clearly. We introduced Roberts edge detection operator so as to gain the coordinate of each irregular dot efficiently and improve the exchange quality, which can also modified in a degree. We take the advantage of clustering to simplify the devising process. We insert considerable amount of charts and diagrams which is intuitive and apt to understand and comprehend. We use such a large sum of method, only to hunt for the most economy way.

Our model effectively achieve all of the goals we set initially. It is fast and can handle large quantities of data, but also have the flexibility we desired. Though we do not test all possibilities, we show that our model optimizes state districts for any of a number of variables. If we had better equipment which can handle larger data, we could have produce the design and show of higher quality with virtually no extra difficulty. As well, our method is robust.

Our computer model agrees with both despite working on different principles, implying it behaves as we want. From Euclidean distance to included angle cosine, from greedy algorism to binary programming, and finally multipurpose programming, every algorithms we bring about are apt to cope with the problem that finding a proper match between drone groups independently. Pursuing an ideal brilliant solution to the issue, we carry out diverse techniques, lest we miss the solution. Moreover, we apply Bézier curve in which fits the speed of drones in lieu of constant speed which is idealistic, going our great length to mimic the real condition.

Among all the advantages, security is the most vital one. We utilize the quadratic function and fit in the flight path of drones in case the drones should crash. In the detection program, we apply the vector to ensure there is no mistaken crash or wrong trail.

As a model from the real world, we take several practical situation into consideration. Promising a magnificent feast for the audience, we take the derivative to calculate the best viewing angle while requiring as many as 477 planes being involved into the performance. It must be admitted that there is unavoidable deviation, we do the sensitivity analyzes to estimate the possible and underlying problems that may exist. Running various programs in distinct platforms, consisting of JavaScript, Matlab and Lingo, we are able to utilize the utmost platforms in different condition based on need, which was replicable had we met similar problems.

Indeed, there is a fundamental tradeoff here between realism and elegance, and our model arguably veers toward over realism. Possessing such advantages, the flaws do exist, which majorly focus on that our model is not adequate in credibility. For instance, due to the limit of time and equipment, we fail to get the final result of several programs, while we do not examine the effect that the wind speed may have.

As what I have mentioned, our models are viable by various means, as our model is in enormous edibility, robust framework.