Drone Routing Techniques for Surveying in Urban Areas.

- **Author(s):** Dr R Jagadeesh Kannan ,Dr K.P. Yadav

- **Abstract:** Local governments are frequently required to conduct a geographic survey of the municipalities in which they are located. In some cases, surveys are carried out to refine data or to confirm the accuracy of information that is used to calculate local taxes. The number of individual properties and the categories in which they are located are examples of such information. For both of these purposes, it is comprehensible that the local government would ask the surveyors to make a voluntary contribution for map generation. For municipalities, it is critical to have up-to-date and accurate data. Aerial photography using Unmanned Aerial Vehicles (UAV) can be used to quickly identify outdoor properties that are difficult to mark from the ground. Drones expedite and reduce the cost of the process significantly. It is also a time-consuming task to compute statistical visualization of property from a large volumes of information generated through the high-resolution ortho map. Through the use of a groundbreaking evolutionary neural network through Augmenting Topologies for UAV path routing, we have developed a method that can automatically route drones in order to enable the generation of ortho maps for categorization purposes.

- **Keywords:** categorization, Unmanned Aerial Vehicles, Drones expedite