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Efficient Utilization of Unmanned Aerial Vehicle (UAV) for Fishing through Surveillance for Fishermen

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Abstract : UAV's are small remote operated or automated aerial surveillance systems without a human pilot aboard. UAV's generally finds its use in military and special operation application, a recent growing trend in UAV's finds its application in several civil and non military works such as inspection of power or pipelines. The objective of this paper is the augmentation of a UAV in order to replace the existing expensive sonar (sound navigation and ranging) based equipment amongst small scale fisherman, for whom access to sonar equipment are restricted due to limited economic resources. The surveillance equipment's present in the UAV will relay data and GPS location onto a receiver on the fishing boat using RF signals, using which the location of the schools of fishes can be found. In addition to this, an emergency beacon system is present for rescue operations and drone recovery.

Keywords : UAV, Surveillance, RF signals, fishing, sonar, GPS, video stream, school of fish
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