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### Smart Aquatic Fish Monitoring Using IoT Rescue system for fishermen

G.Umamaheswari<sup>(1\*)</sup>, V.Vaijayanthi<sup>(2)</sup>, B.Vaishnavi<sup>(3)</sup>,  
K.Sastibalan<sup>(4)</sup>, M . Babykala<sup>(5)</sup>

Engineering Programme ,Dept. of Electronics and Communication Engineering,  
K.S.Rangasamy College of Technology, Tiruchengode, 637 215, India.  
(5)Assistant Professor, Dept. of Electronics and Communication Engineering,  
K.S.Rangasamy College of Technology, Tiruchengode, 637 215, India.

**Abstract:** Harassment against fishermen are increasing drastically daily. The existing constrains and technology do not allow them for fishing to fulfill their live hood. In this project image processing techniques are used to identify the fishes near the boat and sending the density of fishes in that particular area using Internet of things as a communication medium. Underwater images are of paramount importance in underwater scientific mission for applications such as monitoring sea life and assessing geological or biological environment. The detection system should have underwater camera. The main objective of underwater image processing object detection system is to recognize objects which are in the form of fishes without any human intervention. This is done by extracting a boundary information and reducing noise. So this project helps the fishermen to return soon to the shore by easily finding the fishes. The future scope of this project is to find many valuable objects.

**Keywords:** Image processing, Fishermen, Internet of Things and object detection.

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