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Paper 2158 summary

1 message

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Fri, Jun 30, 2023 at 1:22 PM

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Here is submission summary.

Track Name: TRACK 3: INFORMATION TECHNOLOGY

Paper ID: 2158

Paper Title: Real Time Recognition Of Underwater Images Using Deep Learning Techniques

Abstract:

In order to tackle the challenges of the underwater environment, data augmentation techniques are employed during training to increase model diversity and robustness. This involves augmenting the dataset with variations in lighting, blur, and distortion, enabling the model to generalize effectively to unseen underwater scenarios. The image recognition pipeline consists of preprocessing, feature extraction, and classification stages. Preprocessing techniques enhance image quality, reduce noise, and correct color distortion caused by water absorption. Feature extraction is performed using specially designed Support Vector Classifier (SVC) architectures for underwater imagery, allowing the network to learn meaningful representations. The trained model is evaluated on a separate test set, demonstrating its effectiveness in detecting and localizing humans in challenging underwater conditions. This approach has promising applications in underwater surveillance, search and rescue operations, and marine biology research, facilitating automated analysis and decision-making processes for advancements in underwater exploration and monitoring technologies.

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Secondary Subject Areas:

Submission Files:

IEEE-Literature Survey Team2 - nmit.pdf (1 Mb, Fri, 30 Jun 2023 07:48:34 GMT)

Submission Questions Response:

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