

Study on Underwater Image Processing Techniques

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Abstract: Image processing is extensively used to improve the quality of photos with scattering and poor contrast. Image processing is used in many fields of computer vision, including underwater image processing. It is necessary to process underwater photographs in order to improve the poor image quality caused by light scattering and refraction. As depth deepens, different colors are absorbed by the adjacent medium specific wavelengths. This research describes an effective approach for enhancing underwater photographs that have been deteriorated owing to medium absorption and scattering. Image processing has been used to develop certain approaches for improving the quality of underwater photographs. This study also discusses some of the algorithms for enhancing the quality and resolution of photographs. Using an edge detection robustness criterion performance of filtering will be evaluated and also the color correction.

Keywords: Image quality, filtering, underwater image enhancement, contrast

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