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Shepelev Denis Alexandrovich

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– The problem of underwater images modeling based on terrestrial ones
Camouflaged Object Detection **UNDER THE SEA: Hypnotic Sleep Story and Meditation for Grown Ups**
Enhancement Of Underwater Images A

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Sharpening filter is used to enhance the edges and fine details of the underwater images. These details are consists of high frequency components and enhancing the high frequency components of an image enhances the visual

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quality of the image. The sharpened image of input white- balanced image is as shown in the fig.4.

Enhancement of Underwater
Images - IJERT

A hazy image formation model

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is widely used to restore the image quality. It depends on two optical parameters: the background light (BL) and the transmission map (TM).

Underwater images can also be enhanced by color and

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Contrast correction from the
perspective of image
processing.

Enhancement of Underwater
Images With Statistical
Model of ...

enhance visibility of such

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images. An input underwater image is processed for deriving two images from Gamma Correction and sharpening filter. The associated weight maps are then computed and merged together using Gaussian and

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Laplacian pyramids. Patch-
based Contrast Quality Index
(PCQI) and Underwater

Enhancement of Underwater
Images - ijert.org

nant in the underwater
ambience which is known as

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Underwater Images: A
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color cast. For further processing of the image, enhancement remains an essential preprocessing operation. Color equalization is a widely adopted approach for underwater image

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enhancement. Traditional methods normally involve blind color equalization for enhancing the image under test.

Real-time underwater image enhancement: An improved ...

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Underwater images are enhanced and/or restored mainly by two kinds of algorithms and/or techniques which include image-based methods and physics-based methods.

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Enhancement of Underwater
Images with Statistical
Model of ...

The underwater images are enhanced through haze removal algorithm by dark channel prior technique. It shows a good result by

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reducing haze and noise
effect still, it has a
tendency to darken the image
in some situation. CLAHE on
RGB model has been followed
in our approach to change
the level of contrast and
intensity of dehaze image.

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Underwater Image Enhancement
- thesis

Marques et al, L2UWE: A
Framework for the Efficient
Enhancement of Low-Light
Underwater Images Using
Local Contrast and Multi-

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Scale Fusion. Islam et al,
Fast Underwater Image
Enhancement for Improved
Visual Perception. 2019.
Anwar et al, Diving Deeper
into Underwater Image
Enhancement: A Survey.

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[GitHub - cxtalk/Awesome-Underwater-Image-Enhancement](https://github.com/cxtalk/Awesome-Underwater-Image-Enhancement): A

...

based on color correction
and underwater image
dehazing for underwater
image enhancement was
proposed in [11], which

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Corrects the color casts of
underwater image using image
color prior and improves the
visibility by a modified
image dehazing algorithm.

This method shows
limitations when the image
color prior is not

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available. [12] proposed an
underwater

Deep Underwater Image
Enhancement - arXiv

Underwater images are
characterized by poor
contrast, color cast, noise

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and haze. These images need to be pre-processed so as to get some information. In this paper, a novel technique named Fusion of Underwater Image Enhancement and Restoration (FUIER) has been proposed which enhances

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as well as restores A
underwater images with a
target to act on all major
issues in underwater images,
i.e. color cast removal,
contrast enhancement and
dehazing.

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Fusion of Underwater Image Enhancement and Restoration

...

In this paper, a novel technique named Fusion of Underwater Image Enhancement and Restoration (FUIER) has been proposed which enhances

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as well as restores A
underwater images with a
target to act on...

(PDF) Fusion of Underwater
Image Enhancement and
Restoration

Abstract: Underwater image

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enhancement has been attracting much attention due to its significance in marine engineering and aquatic robotics. Numerous underwater image enhancement algorithms have been proposed in the last few

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years. However, these algorithms are mainly evaluated using either synthetic datasets or few selected real-world images.

An Underwater Image
Enhancement Benchmark

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Another line of enhancement tries to process underwater images based on the simplified Retinex model. In, a variational Retinex-based method is proposed for underwater image

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enhancement. This method contains three steps, i.e., color correction, layer decomposition and post-enhancement.

Underwater image enhancement
with global--local networks

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This underwater image degradation model has been widely used in traditional underwater image restoration methods and can be expressed as:

$$U(x) = I(x) \cdot T(x) + B \cdot (1 - T(x))$$

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$I(x)$, where $U(x)$ is the captured underwater image; $I(x)$ is the clear latent image, also called as the scene radiance, that we aim to recover; B is the homogeneous global background light; β is the

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wavelength of the light for
the red, green and blue
channels; and x is a point
in the ...

Underwater scene prior
inspired deep underwater
image and ...

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A hazy image formation model is widely used to restore the image quality. It depends on two optical parameters: the background light (BL) and the transmission map (TM). Underwater images can

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also... Underwater Images A

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Enhancement of Underwater
Images With Statistical
Model of ...

Underwater images can also
be enhanced by color and
contrast correction from the

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perspective of image A
processing. In this paper,
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we propose an effective
underwater image enhancement
method for underwater images
in composition of underwater
image restoration and color
correction.

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[GitHub - wangyanckxx/Enhancement-of-Underwater-Images-with-...](#)

Color Balance and Fusion for Underwater Image Enhancement

Abstract: We introduce an effective technique to

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Underwater Images A
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enhance the images captured underwater and degraded due to the medium scattering and absorption. Our method is a single image approach that does not require specialized hardware or knowledge about the underwater conditions or

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scene structure.
Underwater Images A

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Color Balance and Fusion for
Underwater Image Enhancement

...

For the past several years,
the attention of more and
more scholars was drawn to

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the field of underwater images enhancement and restoration. As a result of scattering and absorption, underwater images always suffer from the problems of low contrast, blur, and color distortion.

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Restoration and Enhancement
of Underwater Images Based
on ...

Light scattering and color change are two major sources of distortion for underwater photography. Light

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scattering is caused by light incident on objects reflected and deflected multiple times by particles present in the water before reaching the camera. This in turn lowers the visibility and contrast of the image

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