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terrestrial ones

Camouflaged Object
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Ups Enhancement Of

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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

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frequency

components and
enhancing the high
frequency

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

Enhancement of

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IJERT

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 also be enhanced by color

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Enhancement
of Underwater
and contrast
correction from the
perspective of image
processing.

Enhancement of
Underwater Images
With Statistical Model
of ...

enhance visibility of
such images. An input
underwater image is
processed for deriving
two images from

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Gamma Correction
and sharpening filter.
The associated
weight maps are then
computed and
merged together
using Gaussian and
Laplacian pyramids.
Patch-based Contrast
Quality Index (PCQI)
and Underwater

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of Underwater
Images A
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nant in the
underwater ambience
which is known as
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 ...

Underwater images are enhanced and/or restored mainly by two kinds of

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of Underwater
Images A
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algorithms and/or
techniques which
include image-based
methods and physics-
based methods.

Enhancement of
Underwater Images
with Statistical Model
of ...

The underwater
images are enhanced
through haze removal
algorithm by dark

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channel prior
technique. It shows a
good result by
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 -
ethesis

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

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

[GitHub - cxtalk/Awesome-Underwater-Image-Enhancement: A ...](#)

based on color

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correction and
underwater image
dehazing for
underwater image
enhancement was
proposed in [11],
which corrects the
color casts of
underwater image
using image color
prior and improves
the visibility by a
modified image
dehazing algorithm.

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This method shows limitations when the image color prior is not available. [12]

proposed an
underwater

Deep Underwater Image Enhancement - arXiv

Underwater images are characterized by poor contrast, color cast, noise and haze.

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Of Underwater
Images A
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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 as well as restores underwater images with a target

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to act on all major issues in underwater images, i.e. color cast removal, contrast enhancement and dehazing.

Fusion of Underwater Image Enhancement and Restoration ...

In this paper, a novel technique named Fusion of Underwater Image Enhancement

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(FUIER) has been proposed which enhances as well as restores underwater images with a target to act on...

(PDF) Fusion of Underwater Image Enhancement and Restoration

Abstract: Underwater
image enhancement

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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 years. However, these algorithms are mainly evaluated using either synthetic datasets or few

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An Underwater Image
Enhancement
Benchmark Dataset
and ...

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

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based method is proposed for underwater image 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:
$$U(x) = I(x) \cdot T(x) + B \cdot (1 - T(x)),$$
 where $U(x)$ is the captured underwater image; $I(x)$ is the clear latent image,

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also called as the scene radiance, that we aim to recover; B_λ is the homogeneous global background light; λ is the wavelength of the light for the red, green and blue channels; and x is a point in the ...

Underwater scene
prior inspired deep

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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 also...

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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 perspective of image processing. In this paper, we propose an effective underwater image enhancement method for

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of underwater images in
composition of
underwater image
restoration and color
correction.

[GitHub - wangyanckx
x/Enhancement-of-Un
derwater-Images-with](#)

...

Color Balance and
Fusion for Underwater
Image Enhancement
Abstract: We

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introduce an effective technique to 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 scene

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Images A

Color Balance and Fusion for Underwater Image Enhancement

...

For the past several years, the attention of more and more scholars was drawn to the field of underwater images enhancement and restoration. As a result of scattering

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and absorption, underwater images always suffer from the problems of low contrast, blur, and color distortion.

Restoration and Enhancement of Underwater Images Based on ...

Light scattering and color change are two major sources of

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distortion for
underwater
photography. Light
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 captured.

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