

Efficient and Lossless Underwater Image Enhancement System

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Abstract: In recent times, signal and image processing grounded on fractional math has attracted expansive attention. Aiming at the serious problem of argentine- scale loss in the being mock color styles in high argentine- scale image improvement, a mock color improvement algorithm suitable for Dynamic miscellaneous point emulsion neural network is proposed, and the traditional spurt, HSV and rainbow coding are bettered. originally, bit depth quantization is performed on the high- position argentine image; Secondly, color improvement is realized by using the constructed high argentine- scale improvement algorithm; also, combined with the complication neural network, the compact literacy system is used to prize the features of themulti-scale image, and the jump connection is used to help the grade dissipation and overcome the fog blur effect of the aquatic image The style cost function is used to learn the correlation between colorful channels of color image, ameliorate the color correction capability of the model, and overcome the problem of color deformation of aquatic image. Experimental results show that compared with traditional image improvement styles, the proposed system has better comprehensive performance in private vision and objective pointers, and has advantages in dealing with aquatic image improvement. While perfecting the brilliance of the image, the problem of color deformation and brilliance blocking of the enhanced image is answered. The texture information of the image is effectively restored. The brilliance distribution of the enhanced image can well restore the brilliance distribution of the real firing terrain, which verifies that the algorithm has advanced robustness.

Keywords: Water color correlation, CNN, Color balance, Dehazing, Image denoising, Retinx proposition

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