

Colorizing grayscale images using convolutional neural networks.

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Abstract: In practice, image processing and classification often require a high level of sharpness. This topic focuses on solving the problem of colorizing grayscale images through the application of convolutional neural networks (CNN). The goal of the research is to develop a system capable of learning from patterns and features to automatically restore color to grayscale images. The research methodology includes both CNN theory and experiments to evaluate the model's performance. The expected result is to provide a feasible solution for enhancing image quality in various application fields, from digitization to computer vision analysis.

Keywords: Colorizing grayscale images, convolutional neural networks, deep learning, image quality enhancement