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(54) Title: SUBSTITUTIONAL INPUT OPTIMIZATION FOR ADAPTIVE NEURAL IMAGE COMPRESSION WITH SMOOTH
QUALITY CONTROL

(57) Abstract: The present disclosure includes a method, apparatus, and non-transitory computer-readable medium for adaptive neural image compression by meta-learning. The method may include generating a substitute input image and a substitute target quality control parameter using an original input image and a target quality control parameter, wherein the substitute input image is a modified version of the original input image and the substitute target quality control parameter is a modified version of the target quality control parameter. The method may further include encoding the substitute input image, based on the substitute input image and the substitute target quality control parameter, using an encoding neural network, to generate a compressed representation of the substitute input image.



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