

Research and development of an image super-resolution model based on Swin Transformer

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Abstract: In the context of increasingly diverse applications of image processing technology, enhancing image quality is an important requirement. This topic focuses on researching and developing an upscaling model based on Swin Transformer - an advanced architecture in the field of deep learning. The objective of the topic is to build a system capable of providing high image quality while optimizing computational performance. The research method includes both theoretical and experimental approaches to evaluate the accuracy and processing speed of the model. The topic is expected to make a significant contribution to the field of deep learning through the use of Swin Transformer in image processing.

Keywords: Swin Transformer, image super-resolution, deep learning, image technology