Deep Video Deinterlacing

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Motivation :

Currently, video deinterlacing is performed using proprietary hardware or software. We propose a software-only approach to tackle this problem using Deep Learning.

Approach :

Current deep learning based methods try to enhance the quality of videos that were already de-interlaced by proprietary hardware/software. We try to come up with a solution that works on interlaced frames directly to try and improve their quality. The deep learning model will be trained using a dataset that we will create ourselves. We will evaluate and compare the performance of our model with other non learning-based techniques using metrics such as $PSNR$, $SSIM$ and MSE.