

Nvidia uses AI to create slow motion video 240fps from smooth, lifelike 30fps video

However, Nvidia took advantage of the image processing capabilities of deep learning artificial intelligence technology to create an incredibly smooth slow motion video like professional camera recording from a regular video.

If you want to create a slow motion video from a regular video, the software must stretch the video by adding many non-existent picture frames between the available frames. But the results are still not satisfactory, the video will be jerky, unreal.

However, Nvidia took advantage of the image processing capabilities of deep learning artificial intelligence technology to create an incredibly smooth slow motion video like professional camera recording from a regular video.

To convert a regular 30-fps video into a 240 fps slow motion video, it is necessary to create 210 additional frames or 7 new frames between the original two-shot frames. Previously, the method used was to mix or transform some frames before and after each real frame, but this was still not enough to create a smooth slow motion video. That's why we often only see slow-motion videos appearing in movies, and very little in sports.

NVIDIA's AI turns regular videos into slow-motion videos.

There are also some advanced emulator software such as Twixtor's RE: Vision Effect that can create slow-motion videos smoothly but needs complex motion analysis in the clip and takes a lot of resources. time.

Nvidia used 11,000 standard slow motion videos of sports content with 240 native fps teaching an AI deep learning so that it could predict 210 frames before and after each frame.



Currently many high-end smartphones or cameras have been able to capture slowmotion clips of up to 240fps, but the resolution has been reduced. Nvidia's method is a much cheaper alternative to tens of thousands of dollars spent on cameras like Phantom. But compared to high-end cameras, Nvidia's AI still needs time to process the video because all slow-motion video creation takes place after the video is recorded.

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