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## Region-Based Stabilized Video Magnification Approach

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### Abstract

Eulerian video magnification (EVM) is used to magnify the imperceptible signals inside the video in the form of color. For this, it requires the jitter-free stable video of the target occupying the major part of the frame. And most of the time, the real-world/real-time videos cannot satisfy the above requirements completely. This is where EVM lacks optimal results. And this thought motivated authors to develop a new region-based stabilized video magnification (RSVM) approach. This preprocesses the input by stabilization of video, then detection–tracking–cropping of ROI, to get the motion-free-modulated input which satisfies requirements of EVM. Further, performance of both methods is