Abstract:

In previous publications it has been shown that no-reference video quality metrics based on a data analysis approach rather than on modeling the human visual system lead to very promising results and outperform many well-known full-reference metrics. Furthermore, the results improve when taking the temporal structure of the video sequence into account by using multiway analysis methods. This contribution shows a way of refining these multiway quality metrics in order to make them more suitable for real-life applications and maintaining the performance at the same time. Additionally, our results confirm the validity of H.264/AVC bitstream no-reference quality metrics using multiway PLSR by evaluating this concept on an additional dataset.

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