## **Paper Reading & Discussion**

## Robust Saliency-Driven Quality Adaptation for Mobile 360-Degree Video Streaming

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## **Questions & Comments**

- 1. In this paper, the authors used uniform high-quality tiles. In practice, there might be regions of the video that may be given a higher quality than others to optimize performance. The authors argue that highly quality regions could affect user gaze, so how user gaze data be continuously collected while mitigating this bias?
- 2. Comprehensive experiment comparison to previous SotA solutions.
- 3. Paper is written articulately and the charts/diagrams are appropriately annotated and labelled.
- 4. The algorithms can be inferred cheaply enough on the cloud, so client overhead is minimized.
- 5. The saliency-aware allocation method devised by the authors is a computationally effective approximation of the exhaustive search method (faster by a factor of 87).
- 6. There would be little to no gain of using a salient-aware model such as this on a salient-even video. For example, consider a peaceful video with very little action or motion where all regions of the video have a similar saliency. The model would be unlikely to accurately predict which region a given user might look at, given that the probability is almost evenly distributed amongst every region / tile.