

Video Analytics: Prediction, text para-phrasing or any new/novel ideas/tasks yet unheard of

Computer Vision (CS6350)
TPA - 12

1 Problem Statement

This is an open-ended project where students are expected to provide an innovative solution to new or very recent problem domains which you can imagine and formulate on your own. Examples of such problems are video prediction, text paraphrasing to describe a video, and identification of peculiarities/anomalies in the video shots.

2 Input & Output

The input and output depend on the problem and solution you formulate.

Caution/Warning: If any of these cases are technically trivial, you may score less than satisfactory marks. So go ahead and innovate on your own.

3 References

1. Science fiction movies, or any equivalent web/TV series.
2. Bhattacharjee, P., & Das, S. (2017). Temporal coherency based criteria for predicting video frames using deep multi-stage generative adversarial networks. In Advances in Neural Information Processing Systems (pp. 4268-4277).
3. Wang, Y., Jiang, L., Yang, M. H., Li, L. J., Long, M., & Fei-Fei, L. (2018). Eidetic 3D LSTM: A Model for Video Prediction and Beyond.