## **TPA 12:** Detection of tampered videos

**Problem Statement:** The goal of this project is to create a new video sequence where the motion between frames (or parts of a frame) due to camera shake, jitter has effectively been removed..

## Input:

• Video shots containing camera shake and jitter.

## **Expected Output:**

• Same video shot without the unwanted shaky motion from video.

**Dataset:** To be created synthetically.

## References

- 1. "Full-frame Video Stabilization", Yasuyuki Matsushita et al., CVPR 2005
- 2. "Content-Preserving Warps for 3D Video Stabilization", Feng Liu, Michael Gleicher, Hailin Jin and Aseem Agarwala, SIGGRAPH 2009
- 3. "Subspace Video Stabilization", Feng Liu, Michael Gleicher, Jue Wang, Hailin Jin and Aseem Agarwala, ACM Transactions on Graphics, 2011
- "Spatially and Temporally Optimized Video Stabilization", Yu-Shuen Wang, Feng Liu, Pu-Sheng Hsu, and Tong-Yee Lee, IEEE Transactions on Visualization and Computer Graphics, 2013