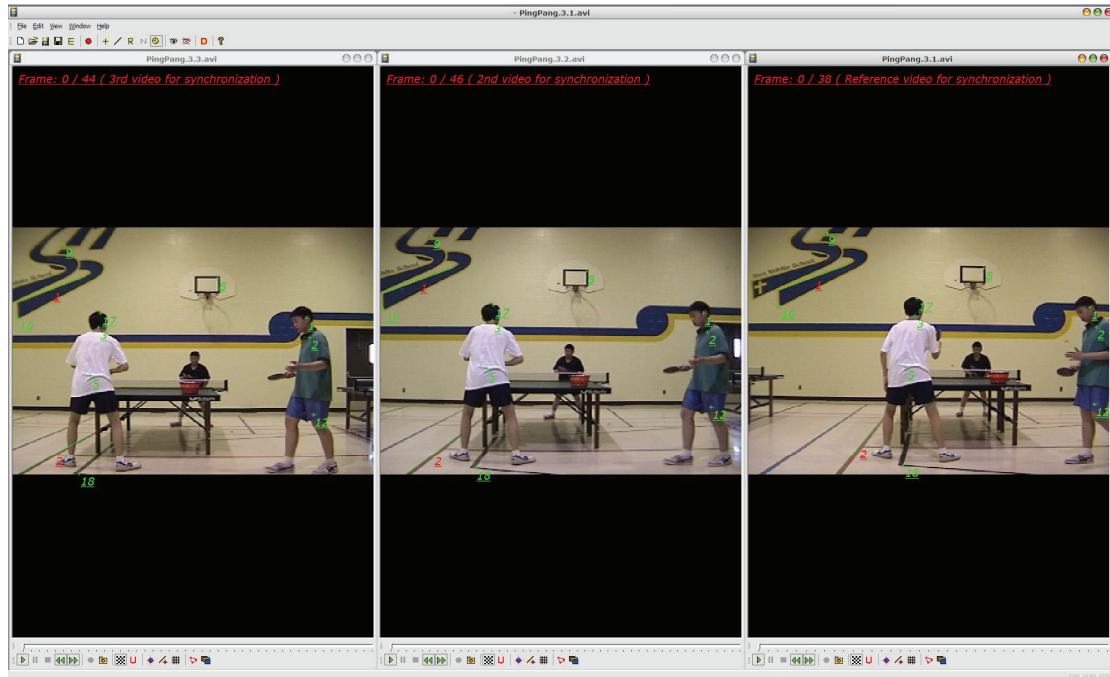


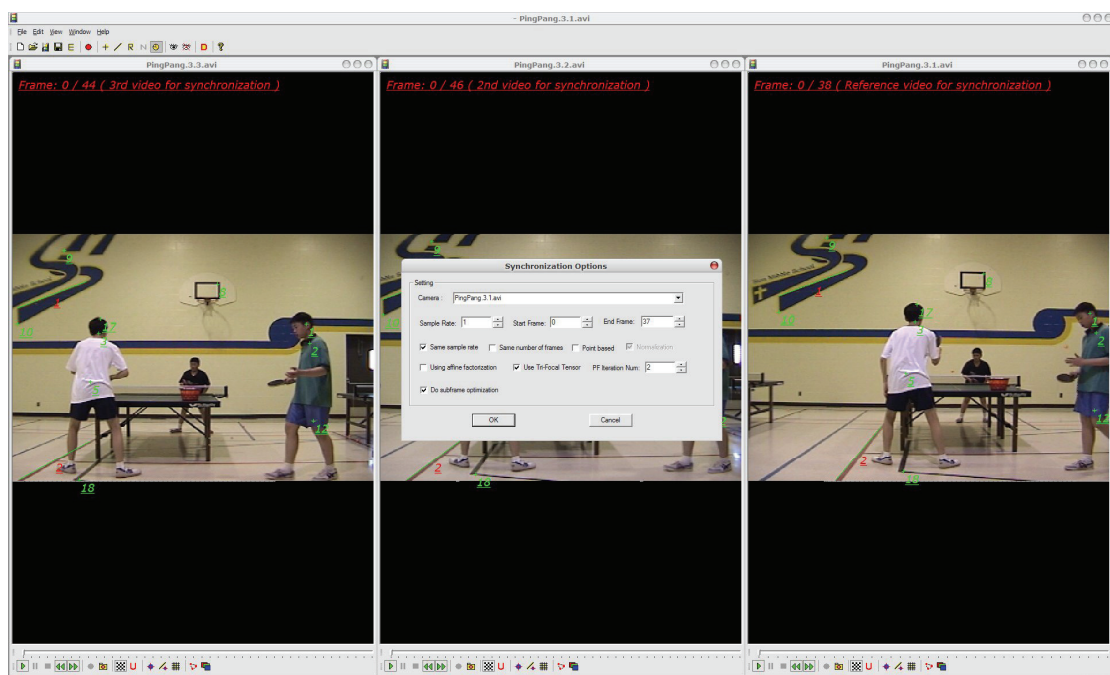
## Workflow of our multiple video synchronizations system

Step 1: In this step, the user can input/edit/delete point/line features for matching and tracking. The tracked features will be used for synchronization. Basic video manipulation functionalities are provided in our system.

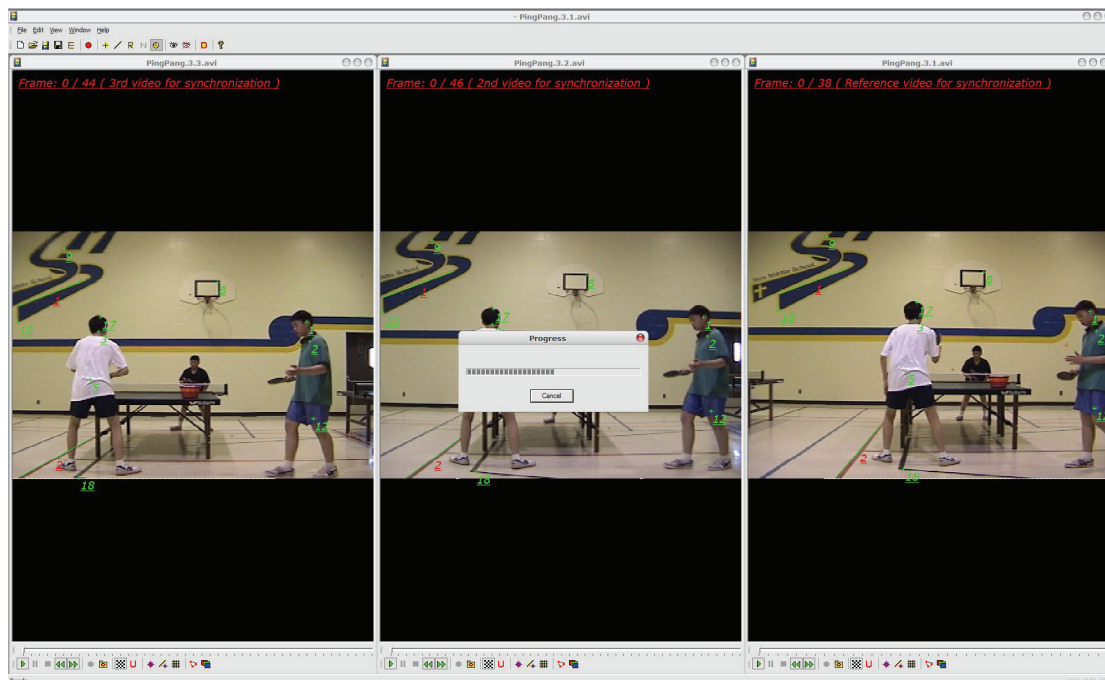


Step 2: In this step, the user can chose the synchronization options by

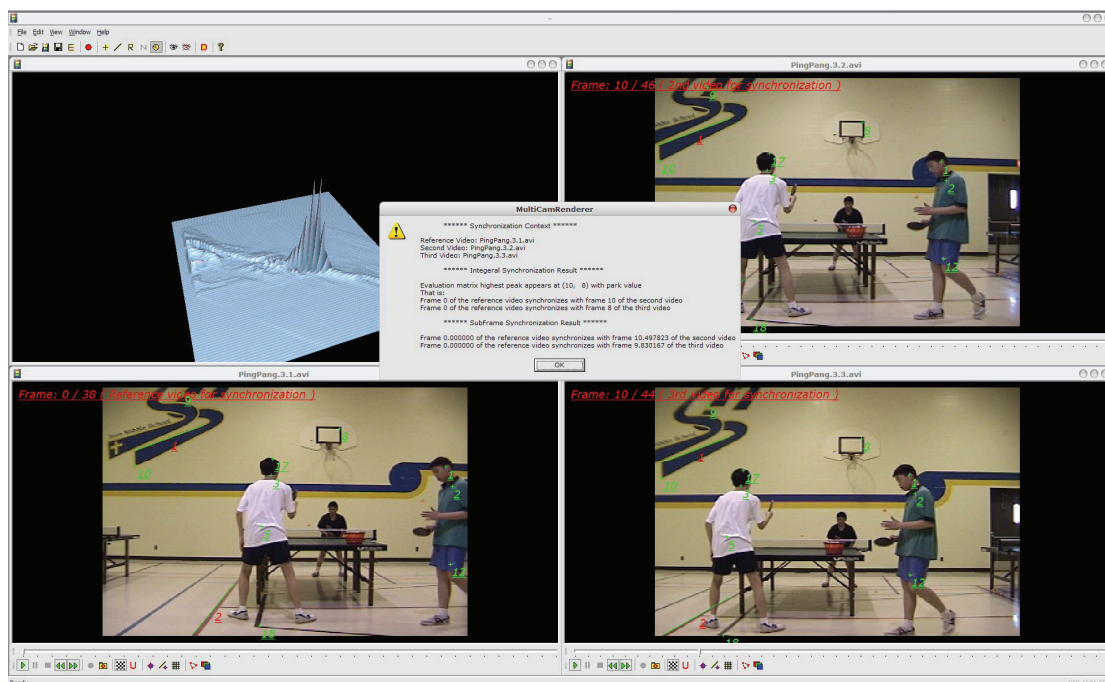
- selecting the temporal down-sampling rates applied to the videos
- choosing the range of the videos
- configuring our line feature based synchronizer



Step 3: Synchronization process in progress. The time needed depends on the lengths of videos being synchronized. For illustrated example, it takes 56 seconds on a laptop with configuration of ( CPU: Centrino 1.4 GHz and MEM: 768M)



Step 4: When synchronization is done, the results will be reported and the videos are forwarded/rewound respectively so that the displayed frames are synchronized according to the result. Also a geometric alignment measure evaluation 3D graph will also be shown.



Step 5: In this step, the user can review the synchronization result by manipulating the videos simultaneously and checking the magnified local part of the frames where synchronization event can be found.

