**Create System objects for reading and displaying video and for drawing a bounding box of the object.**

videoFileReader = vision.VideoFileReader('visionface.avi');

videoPlayer = vision.VideoPlayer('Position', [100, 100, 680, 520]);

**Read the first video frame, which contains the object, define the region.**

objectFrame = step(videoFileReader);

figure; imshow(objectFrame); objectRegion=round(getPosition(imrect));

**Show initial frame with a red bounding box.**

objectImage = insertShape(objectFrame, 'Rectangle', objectRegion,'Color', 'red');

figure; imshow(objectImage); title('Yellow box shows object region');

**Detect interest points in the object region**

points = detectMinEigenFeatures(rgb2gray(objectFrame), 'ROI', objectRegion);

**Display the detected points**

pointImage = insertMarker(objectFrame, points.Location, '+', 'Color', 'white');

figure, imshow(pointImage), title('Detected interest points');

**Create a tracker object.**

tracker = vision.PointTracker('MaxBidirectionalError', 1);

**Initialize the tracker.**

initialize(tracker, points.Location, objectFrame);

**Read, track, display points, and results in each video frame.**

while ~isDone(videoFileReader)

frame = step(videoFileReader);

[points, validity] = step(tracker, frame);

out = insertMarker(frame, points(validity, :), '+');

step(videoPlayer, out);

end

**Release the video reader and player**

release(videoPlayer);

release(videoFileReader);