Tracking and analyzing dynamic changes of cell shapes and spreading

Visualization of cell contours in a video continuously is essential for detailed observation as well as generation of data regarding the moving of target cells. This research aims to utilize tool to capture cell movements in a video. The result is that statistical and image processing tools can capture cell shapes and behaviors in a video, but refinements are necessary to generate more accurate data so that calculation of cell growth rate can be more accurate and intuitive, while change in shape can be visible and throughout.