**TrackExtraction(filename, dataDir)**

Run this function to extract the moving object from the videos.

**Inputs:**

1. filename is the name of the video file (without postfix) like ‘017\_2013-07-23\_11-00-01’
2. dataDir is the directory of the videos, eg: ‘C:\Users\Matti\Downloads\LOST\017’

**Outputs:**

The output of this function (‘filename – tracks.txt’) is a text file which includes some information about the video such including track id, frame number and bounding box of each moving objects in the following format [trackID frameNo X Y Width Heigth], eg: [1 3 50 25 10 15].

**ImageExtraction(filename, dataDir)**

After extracting the coordinate of the tracks as a text file, ImageExtraction function will extract the moving objects as image frames.

**Inputs:**

1. filename is the name of the video file and track info text file (without postfix) such as ‘017\_2013-07-23\_11-00-01’ which both video and track info file should exist in the same folder.
2. dataDir is the directory of the videos, eg: ‘C:\Users\Matti\Downloads\LOST\017’

**Outputs:**

To extract the images in the same directory, a folder should be created with the name of ‘filename’ so the images will be extracted in the following directory: ‘C:\Users\Matti\Downloads\LOST\017\017\_2013-07-23\_11-00-01’

\*Make sure the folder for image frames is created before run this function.

\*The frames are being saved as ‘.jpg’ format, the format can be change inside the code.