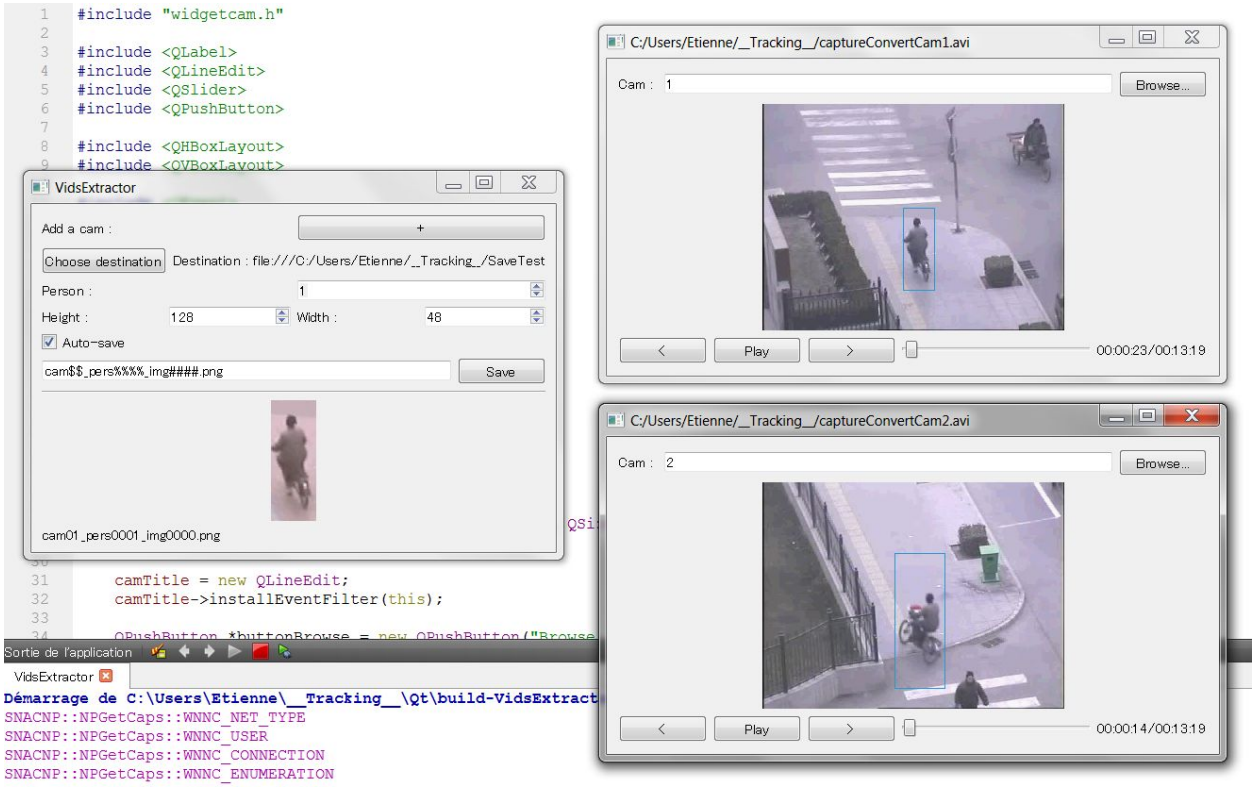
VidsExtractor 1.0

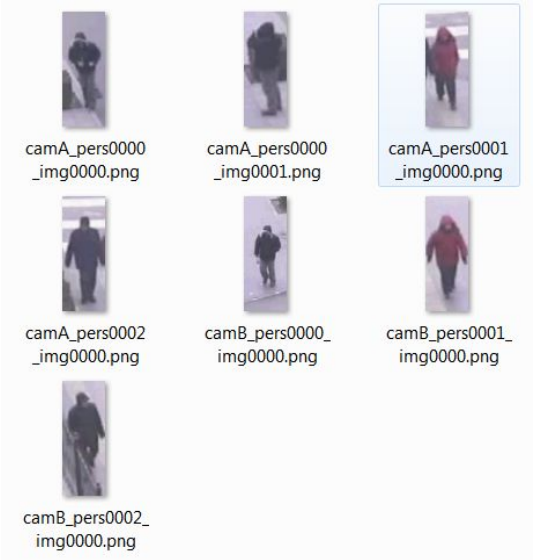
Manual

The goal of this program is to easily extract sub-images of a pedestrian seen by multiple videos . For instance pedestrians pictures from a cctv camera. All final images would have the same size.



Instructions

- Add as much video as you want with the “+” button
- Choose the name of your camera (by default “1”, “2”,...)
- Choose a folder where to save the pictures
- Choose the destination size (in pixel)
- For each pedestrian
    - Select the person id
    - Click in the videos to extract sub-images



Miscellaneous

- No confirmation is asked when saving except if it could erase a previous image (if the names are the same)
- If the auto-save checkbox is checked, the picture is automatically saved each time the user click on the video
- If there is # in the save name, then it will be replaced by the counter value. In this case, the counter will be automatically increased each time a picture is saved.
- One # means that it will simply be replaced by the counter value. Multiple #### means that the program will eventually add some 0 to respect the number of # (ex: “img####_cam1.jpg” with counter=23 will give “img0023_cam1.jpg”)
- It is the same thing for the person id (%) and the camera name ($). If the camera name isn’t a number but a string, they must have only one ‘$’, otherwise the name will be copy multiple times.
- With the ‘<’ and ‘>’ button, you can speed up or slow down the video. A tooltip in the pause button indicate the current speed (note that it is not a real value but just an indication).
- The color of the extracted picture showed in the software can be false, but the saved picture will have the right colors.
- Regardless of the version of opencv (if ffmpeg in including or not), you could not be able to open all the video codec like mp4 or divx.
- You can use the character ‘/’ once in the filename. If you do so, it will create a subdirectory (for instance “cam$/person%%_#” will create directories “camA”, “camB”,...)

Controls

- Left click : Capture

- Mouse Wheel : Adjust the size of the capture frame
- Ctrl+Mouse Wheel : Smooth adjustment
- Space : pause/play video
- Ctrl+Left/Right key : move forward/backward

Compilation instruction

- This program using Qt and OpenCv so it need both library to compile. I made this program with Qt 5.3 and OpenCv 2.4.9 but it may work with older versions.
- Both libraries are multiplatforms so the program can run on Linux or windows.
- The easiest way to compile is to open the .pro with QtCreator and then run the compilation.
- You will probably have to modify the “.pro” in order to modify the library paths.