Work details

Boats tracking

- -In linux install the openCV, since the interface will on this operating system and will need opneCV libraries
- -Also install cmake
- -Go to http://users.isr.ist.utl.pt/~jan/ and download Labeling Boats
- -To see the videos go to link

http://soma.isr.ist.utl.pt/vislab data/seagull/cvi2017/>

user: cvi2017 pass: visual

- For any doubt contact <u>ribeiro@isr.tecnico.ulisboa.pt</u> (Ricardo Ribeiro)

Sequences details

```
MOVIE 1 - 2015-04-22-16-35-38_jai_eo.avi - 5273 frames, 1672 with boat

MOVIE 2 - 2015-04-23-13-35-05_jai_eo.avi - 9263 frames, 3763 with boat

MOVIE 3 - 2015-04-23-14-04-25_jai_eo.avi - 3599 frames, 2167 with boat

MOVIE 4 - 2015-04-23-14-09-25_jai_eo.avi - 8256 frames, 4097 with boat

MOVIE 5 - 2015-06-02-13-18-10_jai_eo.avi - 15376 frames, 2984 with boat

MOVIE 6 - 2015-06-02-14-04-54_jai_eo.avi - 5156 frames, 5084 with boat
```

About 19766 frames to be annotated!

Student annotations

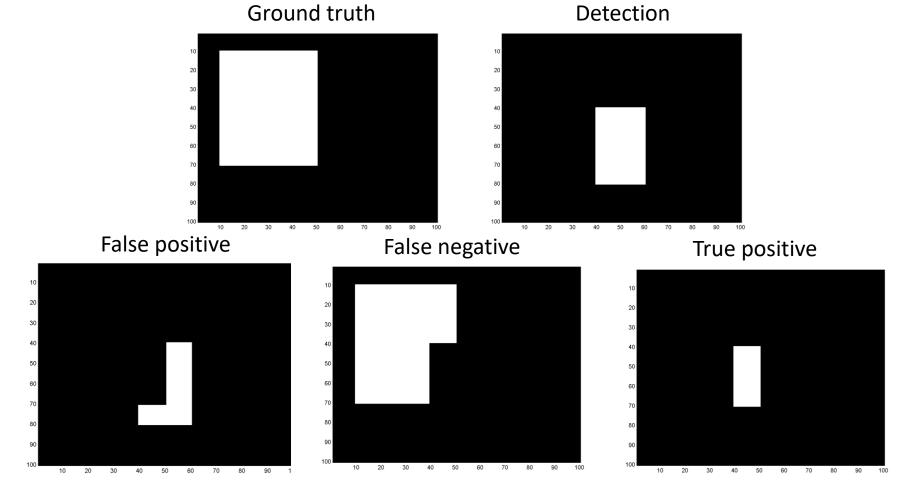
- About 60 students, i.e., 20 groups of three students
- Each group annotated 100 frames, that is, 300 frames per student

Schedule:

```
Group 1: use MOVIE1 to annotate 1000 frames
Group 2: use MOVIE1 to annotate the following 672 frames and
         use MOVIE2 to annotate 328 frames
Group 3: use MOVIE2 to annotate 1000 frames
Group 4: use MOVIE2 to annotate the following 1000 frames
Group 5: use MOVIE2 to annotate the following 1000 frames
Group 6: use MOVIE2 to annotate the following 434 frames
         use MOVIE3 to annotate 566 frames
Group 7: use MOVIE3 to annotate the following 1000 frames
Group 8: use MOVIE3 to annotate the following 601 frames
         use MOVIE4 to annotate 400 frames
Group 9: use MOVIE4 to annotate the following 1000 frames
Group 10:use MOVIE4 to annotate the following 1000 frames
```

Student annotations

Group 11:	use MOVIE4	to annotate	the following	1000 frames
Group 12:	use MOVIE4	to annotate	the following	697 frames
	use MOVIE5	to annotate	303 frames	
Group 13:	use MOVIE5	to annotate	the following	1000 frames
Group 14:	use MOVIE5	to annotate	the following	1000 frames
Group 15:	use MOVIE5	to annotate	the following	681 frames
l	use MOVIE6	to annotate	319 frames	
Group 16:	use MOVIE6	to annotate	the following	1000 frames
Group 17:	use MOVIE6	to annotate	the following	1000 frames
Group 18:	use MOVIE6	to annotate	the following	1000 frames
Group 19:	use MOVIE6	to annotate	the following	1000 frames
Group 20:	use MOVIE6	to annotate	the following	765 frames



$$precision = \frac{true \ positives}{true \ positives + false \ positives}$$
$$recall = \frac{true \ positives}{true \ positives + false \ negatives}$$

F measure =
$$\frac{2*precision*recall}{precision+recall}$$

Fracção das instâncias recuperadas que são relevantes

Fracção das instâncias relevantes que são recuperadas