



Results of EITS videos processing

Videos processed with the following parameters: *-p benthic -a fixedCam-6*

Project reference: EITS-05.01.2006

Yellow rows have been flagged as boring sequences. The presence of boring detection (detection of nose or nothing truly interesting) are appreciated with cross, more cross there are more boring events have been flagged.

Video #	Nb objects detected	Nb objects missed	Presence of boring object detected	comments
173001	2	0	+++	Lot of boring objects detected Some objects look to be interesting but this sequence has been flagged as boring
173501	2	0	+	Boring objects detected are mainly due to the e-jelly
174001	1	0	+	E-jelly detected
174501	0	0	+++	Lot of boring objects detected E-jelly detected Video not considered as boring but nothing happens
175001	0	0	++	Boring objects detected E-jelly detected
175501	0	0	+	Boring objects detected are mainly due to the e-jelly
180001	0	0	+++	Lot of boring objects detected Strong non-uniform lightning
180501	0	2	++	Objects omitted are in the dark -> area segmentation Strong non-uniform lightning
181001	0	0	+++	Video not considered as boring but nothing happens
181501	1	0	+++	low quality video Strong non-uniform lightning
182001	1	0	++	low quality video
182501	1	0	+	low quality video Are little fishes boring ? Motion segmentation won't detect this object
183001	1	0	+	low quality video
183501	2	0	+	low quality video
184501	1	1	-	low quality video The 2 crabs are not correctly detected -> probably due to the maxarea option (all crabs = 1 area)
185001	2	1	-	No boring detection

Video #	Nb objects detected	Nb objects missed	Presence of boring object detected	comments
				1 crab is not detected at all
185501	1	0	-	low quality video No boring detection crab and little fishes detected
190008	3	1	-	lower quality video Fish missed in all the video (static fish)
191008	3	0	-	low quality video
191508	2	0	++	Boring detection low quality video
192008	3	0	+	low quality video
192508	4	3	-	low quality video Crab badly detected -> probably due to the maxarea option (all crabs = 1 area)
193508	6	1	-	low quality video
194008	4	2	-	low quality video Crabs badly detected -> maxarea
194508	1	2	-	low quality video Crabs badly detected -> maxarea
195008	4	1	-	low quality video
195508	2	1	-	low quality video Crabs badly detected -> maxarea
200008	0	2	-	No detection
200508	3	2	-	low quality video Crabs not detected -> maxarea
201008	2	2	-	Crabs not detected -> maxarea
201509	4	0	+	Pretty dark
202009	6	1	+	Pretty dark
202509	1	1	-	Pretty dark
203009	2	2	-	Pretty dark Crabs not detected -> maxarea
203509	7	2	-	Pretty dark
204009	Videos pretty busy an activity is detected (what is the main point) but not all objects are detected			
204509				
205009				
205509				
210009				
210509				
211009				
211509				

Discussion

The e-jelly when turned on is detected as an event what is definitively a problem because this object is supposed salient but is always present on video. The only way to figure out with that is to use a mask and to don't care of what happens in the e-jelly area. This should become a parameter of the AVED system (with the coordinate of the mask) and be processed after the segmentation (flag this area as background).

Crabs are sometime not detected at all when they are superposed. This can be due to the 'maxarea' parameter of the system. The group of crabs is probably segmented as only one object making this object too big to be considered by the system. Videos with this phenomena are going to be reprocessed with a bigger 'maxarea'

There is a lot of boring events which are flagged by the system. The videos quality is probably at the origin of this phenomena. To figure out with that, the segmentation results are going to be analyses (some videos are going to be reprocessed with the segmented picture stored).

Why the quality between each videos change a lot ? Some videos are definitively darker and nosier than some others.

What can be interesting is to process is a long video with boring clips and interesting one.

More boring videos are required to know if boring sequences are not considered.