

event
video

eVi Newsletters
#06 - June 2013

TEC2011-25995 EventVideo (2012-2014)

Strategies for Object Segmentation, Detection and Tracking in Complex
Environments for Event Detection in Video Surveillance and Monitoring

<http://www-vpu.eps.uam.es/eventvideo/>

New member

We are glad that since June 19th 2013, Dr. Andrea Cavallaro, Prof. of Multimedia Signal Processing at Queen Mary University of London and one of the most relevant researchers in the video surveillance area, has joined the project as external expert in order to increase the collaborations between his research group and the Video Processing and Understanding Lab

Sixth trimester progress report

Technical Report TR.01 "Evaluation results and future research lines" was published in April and the updated workplan in May. After analyzing the results of the first year, the project objectives have been slightly adjusted and the workplan modified accordingly. All the activities dealing with feedback techniques applied to the analysis chain and the ones related with alternative sensors have been moved to WP5, now "Integration, orchestration and exploration", as they have covered and will cover more exploratory aspects. The evaluation and dissemination activities originally in WP5, have been moved to a new WP6 "Testing and evaluation, and dissemination". Some minor changes in activities names, in order to be better tuned to the objectives, have also been done. The new list of workpackages and deliverables is available at the project website.

Sixth trimester results

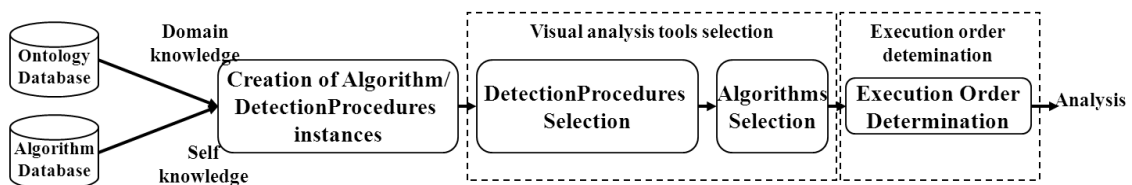
Project Documents

- TR.01 "Evaluation results and future research lines" (restricted), April 2013
- D1.1 "System Infrastructure", v2, June 2013
- D6.2 "EventVideo results report", v3, June 2013

Publications

Juan Carlos San Miguel, José M. Martínez, "A semantic-guided and self-configurable framework for video analysis", *Machine Vision and Applications*, 24(3):493:512, April 2013, Springer, ISSN 0932-8092 (DOI [10.1007/s00138-011-0397-x](https://doi.org/10.1007/s00138-011-0397-x)).

Abstract: This paper presents a distributed and scalable framework for video analysis that automatically estimates the optimal workflow required for the analysis of different application domains. It integrates several technologies related with data acquisition, visual analysis tools, communication protocols, and data storage. Moreover, hierarchical semantic representations are included in the framework to describe the application domain, the analysis capabilities, and the user preferences. The automatic determination of the analysis workflow is performed by selecting the most appropriate tools for each domain among the available ones in the framework by means of exploiting the relations between the semantic descriptions. The experimental results in the video surveillance domain demonstrate that the proposed approach successfully composes optimal workflows for video analysis applications.



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