

event
video

TEC2011-25995 EventVideo (2012-2014)

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

D5.4v1

EVENTVIDEO RESULTS REPORT

Video Processing and Understanding Lab

Escuela Politécnica Superior

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CHANGE LOG

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1. Introduction

This *report* recapitulates the results obtained within the EventVideo project. The results are disseminated both at the Web site (<http://www-vpu.eps.uam.es/eventvideo>) and via the eVi Newsletters.

The EventVideo project started officially January 2012, nevertheless the Video Processing and Understanding Lab (VPULab) has been working during part of 2011 in the research lines proposed in the project. Therefore the project started to produce related results even before the project official start.

1.1. Document structure

This document contains the following chapters:

- Chapter 1: Introduction to this document
- Chapter 2: Publications
- Chapter 3: Content Sets
- Chapter 4: Project Documents
- Chapter 5: Workshops and Seminars

2. Publications

2.1. Journals

1. Juan C. SanMiguel, José M. Martínez, “**Use of feedback strategies in the detection of events for video surveillance**”, IET Computer Vision, 5(5):309-319, Sep. 2011. (DOI [10.1049/iet-cvi.2010.0047](https://doi.org/10.1049/iet-cvi.2010.0047))
2. Álvaro García-Martín, José M. Martínez, Jesús Bescós, “**A corpus for benchmarking of people detection algorithms**”, Pattern Recognition Letters, 33(2):152-156, Jan. 2012. (DOI [10.1016/j.patrec.2011.09.038](https://doi.org/10.1016/j.patrec.2011.09.038))
3. Juan Carlos San Miguel, Luis Caro, José M. Martínez, “**Pixel-based colour contrast for abandoned and stolen object discrimination in video surveillance**”, IET Electronic Letters, 48(2):86-87, Jan. 2012. (DOI [10.1049/el.2011.3160](https://doi.org/10.1049/el.2011.3160))
4. Juan Carlos San Miguel, Andrea Cavallaro, José M. Martínez, “**Adaptive on-line performance evaluation of video trackers**”, IEEE Transactions on Image Processing 21(5):2812-2823, May 2012. (DOI [10.1109/TIP.2011.2182520](https://doi.org/10.1109/TIP.2011.2182520))
5. Álvaro García-Martín, José M. Martínez, “**On collaborative people detection and tracking in complex scenarios**”, Image and Vision Computing, 30(4-5):345-354, May 2012, Elsevier, ISSN 0262-8856. (DOI [10.1016/j.imavis.2012.03.005](https://doi.org/10.1016/j.imavis.2012.03.005)).
6. Juan Carlos San Miguel, José M. Martínez, “**A semantic-based probabilistic approach for real-time video event recognition**”, Computer Vision and Image Understanding, 116(9):937-952, September 2012, Elsevier, ISSN 1077-3142. (DOI [10.1016/j.cviu.2012.04.005](https://doi.org/10.1016/j.cviu.2012.04.005)).
7. Juan Carlos San Miguel, José M. Martínez, “**A semantic-guided and self-configurable framework for video analysis**”, Machine Vision and Applications (Online Dec. 2011). (DOI [10.1007/s00138-011-0397-x](https://doi.org/10.1007/s00138-011-0397-x))

2.2. Conferences

2.3. Masther thesis

1. **Evaluación comparativa de algoritmos de seguimiento de objetos (tracking)**, Mónica Cruz Lozano (tutor: Juan C. San Miguel, ponente: José M. Martínez), Proyecto Fin de Carrera, Univ. Autónoma de Madrid, Escuela Politécnica Superior, Feb. 2012.

3. Content Sets

1. Abandoned and Stolen Object Discrimination dataset - ASODDs (<http://www-vpu.eps.uam.es/DS/ASODDs/>)
2. Event Detection dataset - EDds (<http://www-vpu.eps.uam.es/DS/EDds/>)
3. Person Detection dataset - PDds (<http://www-vpu.eps.uam.es/DS/PDds/>)

4. Project Documents

4.1. Deliverables

D1.1v1 – System Infrastructure (public) – June 2012

D1.2v1 – DiVA Documentation (public) – June 2012

D5.3v1 – EventVideo Test Sequences, Groud-truth and Evalauation Methodology (public) – June 2012

D5.4v1 – EventVideo Results Report (public) – June 2012

4.2. Technical Reports

5. Workshops and Seminars