

## Accepted Manuscript

Stand-alone quality estimation of background subtraction algorithms

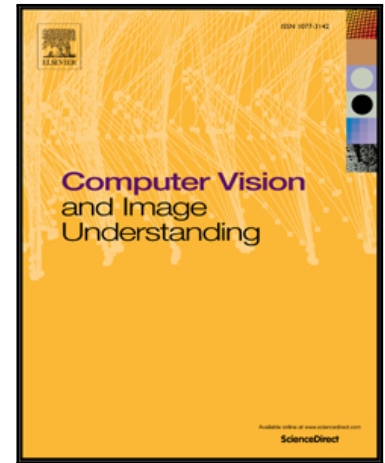
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PII: S1077-3142(17)30144-3  
DOI: [10.1016/j.cviu.2017.08.005](https://doi.org/10.1016/j.cviu.2017.08.005)  
Reference: YCVIU 2606

To appear in: *Computer Vision and Image Understanding*

Received date: 8 November 2016  
Revised date: 27 June 2017  
Accepted date: 15 August 2017

Please cite this article as: Diego Ortego, Juan C. SanMiguel, José M. Martínez, Stand-alone quality estimation of background subtraction algorithms, *Computer Vision and Image Understanding* (2017), doi: [10.1016/j.cviu.2017.08.005](https://doi.org/10.1016/j.cviu.2017.08.005)



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**Highlights**

- We survey and explore existing stand-alone measures proposed in the literature to estimate the quality of background subtraction algorithms without ground-truth.
- We propose a new taxonomy for stand-alone evaluation measures and analyze 21 measures to determine good object properties.
- We demonstrate the utility of the 21 measures to evaluate the segmentation masks of eight background subtraction algorithms in a large heterogeneous dataset with varied challenges (CD-NET2014).
- Our experiments demonstrate that qualitative performance levels can be distinguished and background subtraction algorithms can be ranked without the need of ground-truth.

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