

# Accepted Manuscript

Weak Supervision for Detecting Object Classes from Activities

Abhilash Srikantha, Juergen Gall

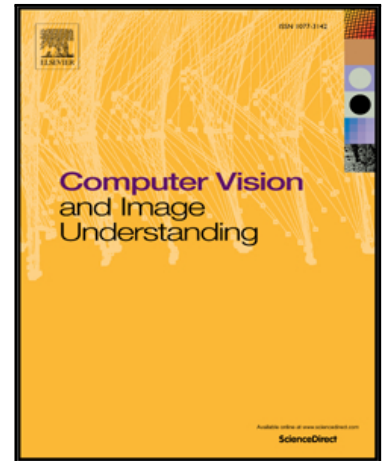
PII: S1077-3142(16)30140-0  
DOI: [10.1016/j.cviu.2016.09.006](https://doi.org/10.1016/j.cviu.2016.09.006)  
Reference: YCVIU 2481

To appear in: *Computer Vision and Image Understanding*

Received date: 31 December 2015  
Revised date: 7 June 2016  
Accepted date: 12 September 2016

Please cite this article as: Abhilash Srikantha, Juergen Gall, Weak Supervision for Detecting Object Classes from Activities, *Computer Vision and Image Understanding* (2016), doi: [10.1016/j.cviu.2016.09.006](https://doi.org/10.1016/j.cviu.2016.09.006)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Highlights**

- The problem of detecting objects from weakly labelled activity videos is addressed.
- Multiple object instances from each video are inferred using a greedy approach.
- Combining object appearance with its functionality greatly improves performance.
- Object detection performance comparable to a fully supervised approach is achieved.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/4968857>

Download Persian Version:

<https://daneshyari.com/article/4968857>

[Daneshyari.com](https://daneshyari.com)