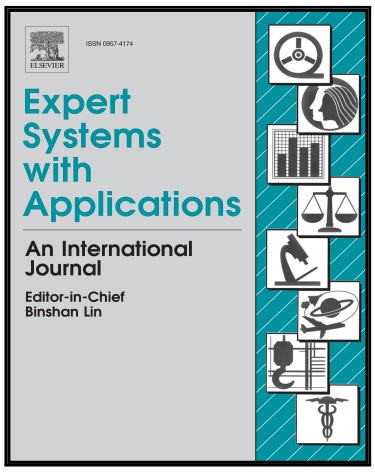
Accepted Manuscript



Exploiting synergies of mobile mapping sensors and deep learning for traffic sign recognition systems

Álvaro Arcos-García, Mario Soilán, Juan A. Álvarez-García, Belén Riveiro

PII: S0957-4174(17)30519-5
DOI: 10.1016/j.eswa.2017.07.042
Reference: ESWA 11458

To appear in: *Expert Systems With Applications*

Received date: 12 May 2017
Revised date: 4 July 2017
Accepted date: 25 July 2017

Please cite this article as: Álvaro Arcos-García, Mario Soilán, Juan A. Álvarez-García, Belén Riveiro, Exploiting synergies of mobile mapping sensors and deep learning for traffic sign recognition systems, *Expert Systems With Applications* (2017), doi: 10.1016/j.eswa.2017.07.042

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.

ACCEPTED MANUSCRIPT

Highlights

- A traffic sign recognition system based on 3D point clouds and deep learning.
- A 3D point cloud processing workflow aiming to detect reflective traffic sign panels.
- Proposed deep neural network gets top-1 rank on German traffic sign benchmark.
- A Spanish dataset of traffic sign images is released.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4943223

Download Persian Version:

https://daneshyari.com/article/4943223

Daneshyari.com