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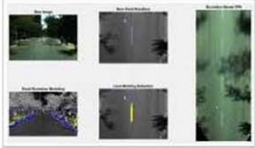
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ROBUST LANE MARKING DETECTION USING BOUNDARY-BASED INVERSE PERSPECTIVE MAPPING 



Paper Code: IVMSP-P13.7 ← **Paper code**

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ABSTRACT
Submitted by Zhenqiang Ying on Wed, 03/23/2016 - 15:53

Road detection, which brings a visual perceptive ability to vehicles, is essential to build driver assistance systems. To help detect lane markings in challenging scenarios, one-time calibration of inverse perspective mapping (IPM) parameters is employed to build a bird's eye view of the road image. We propose an automatic IPM method based on road boundaries called BIRD (Boundary-based IPM for Road Detection), avoiding common problems of fixed IPM. Furthermore, integrating top-down and bottom-up attention, an illumination-robust lane marking detection approach using BIRD is proposed.

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OPEN SOURCE
Submitted by Zhenqiang Ying on Wed, 03/23/2016 - 15:54

Source code is available at <https://github.com/baidut/OpenVehicleVision>

PAPER DETAILS

Authors: Zhenqiang Ying

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Short Link: <http://sigport.org/998>

Type: Poster

Event: ICASSP 2016 **Presenter**

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