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The screenshot shows a paper titled "ROBUST LANE MARKING DETECTION USING BOUNDARY-BASED INVERSE PERSPECTIVE MAPPING". The page includes a grid of images showing road detection results, a "Paper Code" field with the value "IVMSP-P13.7", and a "Thumbs Up" button. The "PAPER DETAILS" section lists the author as Zhenqiang Ying, submitted on 03/23/2016, and the event as ICASSP 2016. A "Download Document" button shows 153 downloads. The "KEYWORDS" section includes "Image/Video Processing". The "SUBSCRIBE" section has checkboxes for subscribing to the page and content in "Image/Video Processing" and "ICASSP 2016". The "COMMENTS" section has an "ABSTRACT" and an "OPEN SOURCE" section with a link to the source code on GitHub. Annotations include a blue arrow pointing to the "Paper Code" field labeled "Paper code", a blue arrow pointing to the author's name labeled "Presenter", and a blue arrow pointing to the "OPEN SOURCE" section labeled "Link to source codes or Dataset".

**ROBUST LANE MARKING DETECTION USING BOUNDARY-BASED INVERSE PERSPECTIVE MAPPING**

**Paper Code:** IVMSP-P13.7  
**Thumbs Up**

**PAPER DETAILS**  
Authors: Zhenqiang Ying  
Submitted On: Wed, 03/23/2016 - 15:48  
Short Link: <http://sigport.org/998>  
Type: Poster  
Event: ICASSP 2016  
Presenters Name: Zhenqiang YING  
Document Year: 2016

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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.

**OPEN SOURCE**  
Submitted by Zhenqiang Ying on Wed, 03/23/2016 - 15:54  
Source code is available at <https://github.com/baidut/OpenVehicleVision>

# More Information

- Watch the tutorial video (5 minutes)  
<https://youtu.be/MuhnXNRN-GI>
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