

Title (en)  
DEVICE FOR PROVIDING IMPROVED OBSTACLE DETECTION

Title (de)  
VORRICHTUNG ZUR BEREITSTELLUNG EINER VERBESSERTEN HINDERNISERKENNUNG

Title (fr)  
DISPOSITIF DE FOURNITURE D'UNE DÉTECTION D'OBSTACLE AMÉLIORÉE

Publication  
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Application  
**EP 17829121 A 20171206**

Priority  
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• DE 2017200129 W 20171206

Abstract (en)  
[origin: WO2018108215A1] The invention relates to a device for providing improved obstacle detection. Capturing (210) of first vehicle image data by means of a first camera (20) is comprised. The first camera provides (220) the first vehicle image data to a processing unit (40). Furthermore, capturing (230) of second vehicle image data by means of a second camera (30) is comprised. There is a region of image overlap comprising at least part of the first vehicle image data and at least part of the second vehicle image data. The first vehicle image data and the second vehicle image data extend over a base plane, and the region of image overlap extends over an overlap region of the base plane. The second camera provides (240) the second vehicle image data to the processing unit. The processing unit extracts (250) first image features from the first vehicle image data, and the processing unit extracts (260) second image features from the second vehicle image data. The processing unit projects (270) the first image features onto the base plane, and the processing unit projects (280) the second image features onto the base plane. The processing unit produces (290) at least one environment image, having either (a) at least part of the first vehicle image data that are associated with the overlap region or (b) at least part of the second vehicle image data that are associated with the overlap region. The production is based partly on the determination of first image features, the projections of which lie in the overlap region of the base plane, and of second image features, the projections of which lie in the overlap region of the base plane.

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