Title (en)
METHOD AND DEVICE FOR DETECTING OBJECTS IN THE AREA SURROUNDING A VEHICLE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG VON OBJEKTEN IN EINEM UMFELD EINES FAHRZEUGS

Title (fr)
PROCÉDÉ ET DISPOSITIF DE RECONNAISSANCE D'OBJETS DANS UN ENVIRONNEMENT D'UN VÉHICULE

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Application
EP 12729369 A 20120521

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Abstract (en)
[origin: WO2012168055A2] The invention relates to a method (500) for detecting objects (240, 250) in the area (130) surrounding a vehicle (100). The method (500) comprises a step of importing (510) a first image (210) of a vehicle camera (110), which image represents the area (130) surrounding the vehicle (100) and which was taken with a first exposure time, and importing a second image (220) of the vehicle camera (110), which second image was taken after the first image (210) and with a second exposure time, wherein the second exposure time differs from the first exposure time. The invention further relates to a step of extracting (520) an image section (230) from the second image (220) of the vehicle camera (110), wherein the image section (230) represents a smaller region of the area (130) surrounding the vehicle (100) than the first image (210), wherein during extraction (520) a position of the image section (230) in the second image (220) is determined on the basis of at least one parameter that represents information about a journey of the vehicle and/or a position of an infrastructure measure in front of the vehicle and/or which is independent of a moving object that has been detected in the image section (230) in a previous step. Finally, the method comprises a step of applying (530) a first object detection algorithm to the first image (210) in order to detect at least one object (240) in the first image (210) and applying a second object detection algorithm to the image section (230) in order to detect at least one further object (250) in the image section (230).

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