

Title (en)

METHOD AND DEVICE FOR VISUALIZING A MOTOR VEHICLE ENVIRONMENT WITH ENVIRONMENT-DEPENDENT FUSION OF AN INFRARED IMAGE AND A VISUAL IMAGE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SICHTBARMACHUNG DER UMGEBUNG EINES FAHRZEUGS MIT UMGEBUNGSABHÄNGIGER FUSION EINES INFRAROT- UND EINES VISUELL-ABBILDS

Title (fr)

PROCEDE ET DISPOSITIF POUR RENDRE VISIBLE L'ENVIRONNEMENT D'UN VEHICULE AU MOYEN D'UNE FUSION DEPENDANT DE L'ENVIRONNEMENT, ENTRE UNE IMAGE INFRAROUGE ET UNE IMAGE VISUELLE

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Application

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Abstract (en)

[origin: WO2004070449A1] The invention relates to a method for visualizing a motor vehicle environment, especially in the dark. In order to improve upon known methods, weighted superpositioning of simultaneous, locally identical image pairs is carried out from a visual image and an infrared image in order to a fusion image. For further improvement, the weighting is environment-related. As a result, the weighting is higher in the dark and the infrared information is weighted significantly higher than the visual information in the fusion image. In fog, the visual information is weighted significantly higher than the infrared information, whereby infrared information, which is often less helpful during fog, is not (significantly) taken into account in the fusion image. The device used to carry out said method comprises a colour-sensitive visual camera (101), an infrared camera (102) and a fusion or superpositioning device (106) which superpositions simultaneous and locally identical image pairs either pixel by pixel or partially and forms mean values.

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