

Title (en)

PROCESSING OF LOSSY-COMPRESSED ADAS SENSOR DATA FOR DRIVER ASSISTANCE SYSTEMS

Title (de)

VERARBEITUNG VERLUSTBEHAFTET KOMPRIMIERTEN ADAS-SENSORDATEN FÜR FAHRERASSISTENZSYSTEME

Title (fr)

TRAITEMENT DE DONNÉES DE CAPTEUR ADAS COMPRESSÉES AVEC PERTE POUR SYSTÈMES D'AIDE À LA CONDUITE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2021058066A1] The invention relates to an ADAS sensor data processing unit (40, 28, 58, 70), to an ADAS sensor system (30; 200, 24; 500, 54; 60) and to an ADAS sensor data evaluation method for use in driver assistance systems or systems for the automated driving of a vehicle. An ADAS sensor data processing unit (40, 28, 58, 70) according to the invention comprises an input interface (401, 281, 581, 701), a decompression module (7), a processing unit (44, 22, 55) and an output unit (400, 280, 57). The input interface (401, 281, 581, 701) is designed to receive data of an ADAS sensor (1, 14) that have been subjected to lossy compression by a compression module (6). The decompression module (7) is designed to decompress the compressed data (lcSD) of the ADAS sensor (1, 14). The processing unit (44, 22, 55) is designed to process the decompressed data (ldSD) of the ADAS sensor (1, 14), information (RI) relevant to an ADAS/AD function being ascertained from the decompressed sensor data (ldSD). The output unit (400, 280, 57) is designed to output the ascertained information (RI) relevant to the ADAS function. Advantages of using a lossy compression are a lower required amount of memory during development for the persistent storage of recorded sensor data, a lower required bandwidth for transmitting the sensor data to the computer unit and a lower bandwidth for transmitting the data within an "intelligent" ADAS sensor.

IPC 8 full level

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