

Title (en)

METHOD AND APPARATUS FOR RECONFIGURING AN AUTONOMOUS VEHICLE IN THE EVENT OF A FAULT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM REKONFIGURIEREN EINES AUTOMATISIERT FAHRENDEN FAHRZEUGS IN EINEM FEHLERFALL

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR RECONFIGURER UN VÉHICULE À CONDUITE AUTOMATIQUE EN CAS D'ERREUR

Publication

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Application

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Abstract (en)

[origin: WO2021144271A1] The invention relates to a method for reconfiguring an autonomous vehicle (50) in the event of a fault, wherein application entities (60-x, 61-x) are executed in a distributed manner across a plurality of computing nodes (70-x) in accordance with a predefined configuration (62), wherein a fault in an application entity (60-x, 61-x) and/or in an operating system and/or in a piece of hardware is detected by means of the at least one monitor device (2), wherein the detected fault is isolated by means of a switching device (3) by switching to application entities (61-x) which are redundant with respect to the affected application entities (60-x), and wherein predefined redundancy conditions (11) and/or segregation conditions (12) are restored for the application entities (60-x, 61-x) by the reconfiguration, by an application placement device (4), of the configuration (62), wherein the reconfiguration is carried out such that the number of times application entities (60-x, 61-x) are switched to other computing nodes (70-x) to establish the predefined redundancy conditions (11) and/or segregation conditions (12) will be or is minimised. The invention also relates to a corresponding apparatus (1) and to a vehicle (50) comprising such an apparatus (1).

IPC 8 full level

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