Title (en)
METHOD AND DEVICE FOR RECONFIGURING A SYSTEM ARCHITECTURE OF AN AUTONOMOUS VEHICLE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM REKONFIGURIEREN EINER SYSTEMARCHITEKTUR EINES AUTOMATISIERT FAHRENDEN FAHRZEUGS

Title (fr)
PROCÉDÉ ET DISPOSITIF DE RECONFIGURATION D'UNE ARCHITECTURE DE SYSTÈME D'UN VÉHICULE AUTONOME

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Abstract (en)
[origin: WO2023274745A1] The invention relates to a method for reconfiguring a system architecture (51) of an autonomous vehicle (51), wherein the system architecture (51) comprises a plurality of application entities (20-x) and a plurality of computing nodes (21-x), wherein the application entities (20-x) are executed in a distributed manner across the computing nodes (21-x) in accordance with a configuration (22, 22x), wherein sensor data captured by at least one sensor is supplied to at least some of the application entities (20-x), and wherein at least some of the application entities (20-x) generate and provide control signals for controlling the vehicle (50), wherein at least one item of contextual information (10) of a current context is detected and/or obtained, in which context the vehicle (50) is operated, wherein the at least one item of contextual information (10) that has been detected and/or obtained is supplied to a trained machine learning method (3-1), wherein the trained machine learning method (3-1) estimates a configuration (22x) based on the at least one item of contextual information (10), and wherein the configuration (22) is adapted in accordance with the estimated configuration (22x). The invention also relates to an associated device (1) and to a method for training a machine learning method (3-1).

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