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National Riblin Data

Description Claims

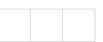
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## 1. AU2020103222 - AUTONOMOUS NAVIGATION, GUIDANCE AND CONTROL BASED ON ARTIFICIAL INTELLIGENCE FOR THE VEHICULAR SYSTEMS

Documents



Machine translation PermaLink Office Title [EN] AUTONOMOUS NAVIGATION, GUIDANCE AND CONTROL BASED ON ARTIFICIAL INTELLIGENCE FOR Australia THE VEHICULAR SYSTEMS Application Number 2020103222 Abstract (EN) The invention relates to a system for controlling and maneuvering a vehicle without human **Application Date** intervention that comprises a plurality of sensors affixed at multiple locations of the said vehicle 04.11.2020 for sensing the trajectory of the vehicle, obstacles along and around the said trajectory, distance between the said obstacle and the vehicle, operating speed of the vehicle, at least one RADAR at **Publication Number** the front end of the said vehicle for detecting the vehicles travelling at the front end of the said 2020103222 vehicle, a 2D image capturing device mounted on the vehicle at multiple distances from one another for collecting image data to identify the location of the subsequent vehicles and **Publication Date** obstacles, a LIDAR including a light source and a deflection mirror for scanning the received 26.11.2020 reflected light beam to detect the trajectory of the moving vehicle and the obstacles, a GPS module for periodically sensing the geographical co-ordinates of the moving vehicle and **Publication Kind** transmitting the said data to the controller, a wheel encoder mounted on the wheel axle and drive Α4 shaft for estimating the longitudinal speed of the traversing vehicle and a smart controller with built-in artificial intelligence to receive the data from the multiple units, process the said data and IDC navigate the said vehicle in the pre-set trajectory and to instruct the vehicle to modify the said trajectory based on the data for reaching the destination. G05D 1/02 B60W 30/09 B60W 30/095 B60W 40/105 B60W 60/00 G01S 13/931 View more classifications G05D 1/0223 G05D 1/0236 G05D 1/0257 G05D 1/0278 B60W 60/0011 B60W 30/09 View more classifications **Applicants** Vemu Institute of Technology Inventors Bhargavi, Y. Bhaskar, P. Kilari, Naveen R., Ran Rao, KVNVN Agents SUNDARAM, ARUN DR