

Title (en)
AN EXPERT SYSTEM FOR INTEGRATEDLY MANAGING VEHICLE DRIVING SAFETY AND COMPUTING AN INTERACTIVE ROAD RISK MAP

Title (de)
EXPERTENSYSTEM ZUR UMFASSENDE VERWALTUNG DER FAHRZEUGFAHR SICHERHEIT UND ZUR BERECHNUNG EINER INTERAKTIVEN STRASSEN RISIKOKARTE

Title (fr)
SYSTÈME EXPERT POUR GÉRER DE MANIÈRE INTÉGRÉE LA SÉCURITÉ DE CONDUITE D'UN VÉHICULE ET LE CALCUL D'UNE CARTE DE RISQUES ROUTIERS INTERACTIVE

Publication
EP 3226225 A1 20171004 (EN)

Application
EP 17162922 A 20170324

Priority
IT UA20162009 A 20160324

Abstract (en)
An expert system for integratedly managing vehicle driving safety and computing an interactive road risk map, in which at least one operations centre (3) operates, by means of bidirectional data exchange, with intelligent control units (5) mounted on respective vehicles and able to transmit to the operations centre (3) data associated with historical events that fails to require priority transmission to the operations centre (3) and data associated with extraordinary events that requires immediate and priority transmission to the operations centre (3). The operations centre (3) aggregates the trajectories associated with different vehicles, creating a road graph, accumulating on this graph critical traffic positions and disrupted traffic positions for extraordinary events based on data coming from the electronic control units of the vehicles or possibly other information sources, such as institutional traffic authorities, weather offices or highway authorities. Thanks to the visual and audible warnings that the apparatus can transmit to the driver, these deriving from its characteristics and interaction with the expert system resident in the operations centre, the system is able to prevent accidents and reduce risk.

IPC 8 full level
G08G 1/0967 (2006.01); **G08G 1/01** (2006.01)

CPC (source: EP)
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Citation (search report)

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- [I] US 2012158276 A1 20120621 - KIM HYUN-SUK [KR], et al
- [X] US 2009140887 A1 20090604 - BREED DAVID S [US], et al
- [A] EP 1591980 A1 20051102 - FIAT RICERCHÉ [IT]

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GR20170100409A; CN116233903A; CN108765018A; US2017358204A1; US11721205B2; CN114095301A; CN117523840A; WO2021036290A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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