



Factsheet: Systems, Autonomous Driving

A technology field created by ip-search

1 Definition

The technology field Autonomous Vehicles and Driving covers a variety of self-guided or self-steering vehicles and machines, including land, sea, submarine or air traveling vehicles as well as robotic cleaner or drones. The common technical concept defining the field is the autonomous or automated character of the vehicle movement, achieved by computer software, which is in intensive contact with sensors and measuring devices on board as well as in the surrounding to control, navigate, and drive the vehicle. Self-driving vehicles are cars or trucks in which human drivers are not required to take control to safely operate the vehicle. The technology field covers not only fully autonomous vehicles (level 5), but also many intermediate technologies such as adaptive cruise control, image recognition for driver assistance, driver behavior analysis or traffic control, if they refer to autonomous or automated vehicles.

2 CPC / IPC

2.1.1 Cooperative Patent Classification (CPC), International Patent Classification (IPC), and Japanese File Index (FI)

CPC/IPC/FI Symbols	Description
A	HUMAN NECESSITIES
A47	FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL
A47L	DOMESTIC WASHING OR CLEANING (brushes A46B; cleaning quantities of bottles or of other hollow articles of one kind B08B9/00; laundry D06F); SUCTION CLEANERS IN GENERAL (cleaning in general B08)
<u>A47L2201/00</u>	Robotic cleaning machines, i.e. with automatic control of the travelling movement or the cleaning operation
A63	SPORTS; GAMES; AMUSEMENTS
A63B	APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage A61H)
A63B47/00	Devices for handling or treating balls {, e.g. for holding or carrying balls}
A63B47/02	. for picking-up {or collecting}
A63B47/021	.. {for picking-up automatically, e.g. by apparatus moving over the playing surface}
<u>A63B2047/022</u>	... {Autonomous machines which find their own way around the playing surface}
A63H	TOYS, e.g. TOPS, DOLLS, HOOPS, BUILDING BLOCKS
<u>A63H27/00</u>	Toy aircraft; Other flying toys (toys with parachutes A63H33/20) {; Starting or launching devices therefor}
B	PERFORMING OPERATIONS; TRANSPORTING
B60	VEHICLES IN GENERAL
B60K	ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES



CPC/IPC/FI Symbols	Description
B60K2370/00	Details of arrangements or adaptations of instruments specially adapted for vehicles, not covered by groups B60K35/00, B60K37/00
B60K2370/16	. Type of information
<u>B60K2370/175</u>	.. Autonomous driving
B60T	VEHICLE BRAKE CONTROL SYSTEMS OR PARTS THEREOF; BRAKE CONTROL SYSTEMS OR PARTS THEREOF, IN GENERAL (electrodynamic brake systems for vehicle, in general B60L; brakes per se, i.e. devices where braking effect occurs, including ultimate brake actuators, F16D); ARRANGEMENT OF BRAKING ELEMENTS ON VEHICLES IN GENERAL; PORTABLE DEVICES FOR PREVENTING UNWANTED MOVEMENT OF VEHICLES; VEHICLE MODIFICATIONS TO FACILITATE COOLING OF BRAKES
B60T2201/00	Particular use of vehicle brake systems; Special systems using also the brakes; Special software modules within the brake system controller
<u>B60T2201/02</u>	. Active or adaptive cruise control system; Distance control
<u>B60T2201/022</u>	.. Collision avoidance systems
<u>B60W</u>	CONJOINT CONTROL OF VEHICLE SUB-UNITS OF DIFFERENT TYPE OR DIFFERENT FUNCTION; CONTROL SYSTEMS SPECIALLY ADAPTED FOR HYBRID VEHICLES; ROAD VEHICLE DRIVE CONTROL SYSTEMS FOR PURPOSES NOT RELATED TO THE CONTROL OF A PARTICULAR SUB-UNIT
<u>B60W30/00</u>	Purposes of road vehicle drive control systems not related to the control of a particular sub-unit, e.g. of systems using conjoint control of vehicle sub-units {, or advanced driver assistance systems for ensuring comfort, stability and safety or drive control systems for propelling or retarding the vehicle (anti-lock brake systems [ABS] B60T8/00)}
B60W30/08	. {Active safety systems} predicting or avoiding probable or impending collision {or attempting to minimise its consequences}
<u>B60W30/085</u>	.. Taking automatic action to adjust vehicle attitude in preparation for collision, e.g. braking for nose dropping
<u>B60W30/09</u>	.. Taking automatic action to avoid collision, e.g. braking and steering
<u>B60W30/095</u>	.. Predicting travel path or likelihood of collision
<u>B60W40/00</u>	Estimation or calculation of {non-directly measurable} driving parameters for road vehicle drive control systems not related to the control of a particular sub unit, {e.g. by using mathematical models}
<u>B60W50/00</u>	Details of control systems for road vehicle drive control not related to the control of a particular sub-unit {, e.g. process diagnostic or vehicle driver interfaces}
<u>B60W50/08</u>	. Interaction between the driver and the control system
<u>B60W50/14</u>	.. Means for informing the driver, warning the driver or prompting a driver intervention
<u>B60W2300/00</u>	Indexing codes relating to the type of vehicle
<u>B60W2400/00</u>	Indexing codes relating to detected, measured or calculated conditions or factors
<u>B60W2422/00</u>	Indexing codes relating to the special location or mounting of sensors
<u>B60W2520/00</u>	Input parameters relating to overall vehicle dynamics
<u>B60W2530/00</u>	Input parameters relating to other vehicle conditions or values
<u>B60W2540/00</u>	Input parameters relating to the driver
<u>B60W2550/00</u>	Input parameters relating to exterior conditions
<u>B60W2550/10</u>	. from obstacle detection
B60W2550/20	. Traffic related input parameters
<u>B60W2550/30</u>	.. Distance or speed relative to other vehicles
<u>B60W2560/00</u>	Other vehicle related input parameters not covered by groups B60W2510/00 - B60W2550/00
<u>B60W2600/00</u>	Indexing codes relating to automatic control systems or control processes
<u>B60W2710/00</u>	Output or target parameters relating to a particular sub-units
<u>B60W2720/00</u>	Output or target parameters relating to overall vehicle dynamics
<u>B60W2750/00</u>	Output or target parameters relating to exterior, e.g. between vehicles
<u>B60W2900/00</u>	Indexing codes relating to the purpose of, or problem solved of road vehicle drive control systems not otherwise provided for in groups B60W30/00



CPC/IPC/FI Symbols	Description
B61	RAILWAYS
B61L	GUIDING RAILWAY TRAFFIC; ENSURING THE SAFETY OF RAILWAY TRAFFIC (power supply lines for electrically-propelled vehicles B60M; vehicle signalling in general B60Q; brakes or auxiliary equipment B61H, B61K; point or crossing construction E01B; insulated rail joints E01B11/54; optical devices in general G02; controlling in general G05; electric communication technique H04)
<u>B61L27/00</u>	Central traffic control systems {; Track-side control or specific communication systems}
B62	LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS
B62D	MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflation or tyre changing B60C; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; heating, cooling, ventilating or other air treating devices B60H; windows, windcreens, non-fixed roofs, doors or similar devices, protective coverings for vehicles not in use B60J; propulsion plant arrangements, auxiliary drives, transmissions, controls, instrumentation or dashboards B60K; electric equipment or propulsion of electrically-propelled vehicles B60L; power supply for electrically-propelled vehicles B60M; passenger accommodation not otherwise provided for B60N; adaptations for load transportation or to carry special loads or objects B60P; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q; vehicles, vehicle fittings or vehicle parts not otherwise provided for B60R; servicing, cleaning, repairing, supporting, lifting, or manoeuvring, not otherwise provided for, B60S; brake arrangements, brake control systems or parts thereof B60T; air-cushion vehicles B60V; motor-cycles, accessories therefor B62J, B62K; testing of vehicles G01M)
<u>B62D6/00</u>	Arrangements for automatically controlling steering depending on driving conditions sensed and responded to, e.g. control circuits (means for initiating a change in direction B62D1/00; steering valves B62D5/06; combined with means for inclining the vehicle body or wheels on bends B62D9/00)
<u>B62D15/00</u>	Steering not otherwise provided for
B63	SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT
B63B	SHIPS OR OTHER WATERBORNE VESSELS; EQUIPMENT FOR SHIPPING ({amphibious vehicles B60F3/00; } air-cushion vehicles B60V; arrangements of vessel ventilation, heating, cooling or air conditioning B63J2/00)
B63B35/00	Vessels or like floating structures adapted for special purposes (vessels characterised by load-accommodating arrangements B63B25/00; fire-fighting vessels A62C29/00; submarines, mine-layers or mine-sweepers B63G; large containers for use in or under water B65D88/78; {Advertising on ships or other floating means G09F21/18})
B63B2035/006	. {Unmanned surface vessels, e.g. remotely controlled}
<u>B63B2035/007</u>	.. {autonomously operating}
B63G	OFFENSIVE OR DEFENSIVE ARRANGEMENTS ON VESSELS; MINE-LAYING; MINE-SWEEPING; SUBMARINES; AIRCRAFT CARRIERS (means of attack or defence in general, e.g. turrets F41H)
<u>B63G8/00</u>	Underwater vessels, e.g. submarines; {Equipment specially adapted therefor} (submarine hulls B63B3/13; diving chambers with mechanical link, e.g. cable, to a base B63C11/34; divers' sleds B63C11/46; torpedoes F42B19/00)
<u>B63G8/001</u>	. {Underwater vessels adapted for special purposes, e.g. unmanned, underwater vessels; Equipment specially adapted therefor, e.g. docking stations (self-propelled or direction controlled diving chambers with mechanical link to a base B63C11/42)}
<u>B63G2008/002</u>	.. {unmanned}
<u>B63G2008/004</u>	... {autonomously operating}
B64	AIRCRAFT; AVIATION; COSMONAUTICS
B64C	AEROPLANES; HELICOPTERS (air-cushion vehicles B60V)
<u>B64C39/00</u>	Aircraft not otherwise provided for
E	FIXED CONSTRUCTIONS



CPC/IPC/FI Symbols	Description
E02	HYDRAULIC ENGINEERING; FOUNDATIONS; SOIL SHIFTING
E02F	DREDGING; SOIL-SHIFTING (winning peat E21C49/00)
<u>E02F3/00</u>	Dredgers; Soil-shifting machines (for special purposes E02F5/00; other machines or apparatus for mining E21C; tunnelling E21D)
<u>E02F5/00</u>	Dredgers or soil-shifting machines for special purposes
<u>E02F9/00</u>	Component parts of dredgers or soil-shifting machines, not restricted to one of the kinds covered by groups E02F3/00 - E02F7/00 (laying-out or take-up devices for trailing electric cables B66C)
<u>E02F9/20</u>	. Drives; Control devices (gearings in general F16H; controlling in general G05; electric multi-motor drives H02K, H02P)
E02F9/2025	.. {Particular purposes of control systems not otherwise provided for (E02F3/16, E02F3/26, sub-groups of E02F3/43, E02F3/651, sub-groups of E02F3/84, E02F3/907, E02F5/145 take precedence)}
<u>E02F9/205</u>	... {Remotely operated machines, e.g. unmanned vehicles (E02F3/8866 takes precedence)}
G	PHYSICS
G01	MEASURING; TESTING
G01C	MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY (measuring liquid level G01F; radio navigation, determining distance or velocity by use of propagation effects, e.g. Doppler effects, propagation time, of radio waves, analogous arrangements using other waves G01S)
<u>G01C21/00</u>	Navigation; Navigational instruments not provided for in preceding groups G01C1/00-G01C19/00 (measuring distance traversed on the ground by a vehicle G01C22/00; control of position, course, altitude or attitude of vehicles G05D1/00; traffic control systems for road vehicles involving transmission of navigation instructions to the vehicle G08G1/0968)
G01C21/26	. specially adapted for navigation in a road network
G01C21/34	.. Route searching; Route guidance
G01C21/36	... Input/output arrangements for on-board computers
G01C21/3605 {Destination input or retrieval}
<u>G01C21/3617</u> {using user history, behaviour, conditions or preferences, e.g. predicted or inferred from previous use or current movement}
<u>G01C22/00</u>	Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers
G05	CONTROLLING; REGULATING
G05D	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D11/16; valves per se F16K; sensing non-electric variables, see the relevant subclasses of G01; for regulating electric or magnetic variables G05F)
<u>G05D1/00</u>	Control of position, course or altitude of land, water, air, or space vehicles, e.g. automatic pilot (radio navigation systems or analogous systems using other waves G01S)
G05D1/0055	. {with safety arrangements}
<u>G05D1/0061</u>	.. {for transition from automatic pilot to manual pilot and vice versa}
<u>G05D1/0088</u>	. {characterized by the autonomous decision making process, e.g. artificial intelligence, predefined behaviours (using knowledge based models G06N5/00)}
G05D1/02	. Control of position or course in two dimensions
G05D1/021	.. {specially adapted to land vehicles}
G05D1/0231	... {using optical position detecting means (position-fixing by using electromagnetic waves other than radio waves, e.g. optical position detecting means G01S5/16)}
G05D1/0238 {using obstacle or wall sensors (G05D1/0246 and G05D1/0289 take precedence; lidar systems designed for anti-collision purposes G01S17/93)}
<u>G05D1/024</u> {in combination with a laser (lasers per se H01S)}



CPC/IPC/FI Symbols	Description
G05D1/0276	... {using signals provided by a source external to the vehicle (involving a plurality of vehicles G05D1/0287; automatically controlling vehicle speed responsive to externally generated signals B60K31/0058)}
<u>G05D1/0278</u> {using satellite positioning signals, e.g. GPS}
<u>G05D3/00</u>	Control of position or direction (G05D1/00 takes precedence)
<u>G05D13/00</u>	Control of linear speed; Control of angular speed; Control of acceleration or deceleration, e.g. of a prime mover (synchronising telegraph receiver and transmitter H04L7/00)
<u>G05D2201/00</u>	Application
G05D2201/02	. Control of position of land vehicles
<u>G05D2201/0207</u>	.. Unmanned vehicle for inspecting or visiting an area
<u>G05D2201/0212</u>	.. Driverless passenger transport vehicle
<u>G05D2201/0216</u>	.. Vehicle for transporting goods in a warehouse, factory or similar
G06	COMPUTING; CALCULATING; COUNTING
G06K	RECOGNITION OF DATA; PRESENTATION OF DATA; RECORD CARRIERS; HANDLING RECORD CARRIERS
G06K9/00	Methods or arrangements for reading or recognising printed or written characters or for recognising patterns, e.g. fingerprints (processing or analysis of tracks of nuclear particles G01T5/02 {; information retrieval G06F16/00; radio frequency identification G06K7/00; recognition of barcodes and similar code images G06K7/10; computer systems based on specific computational models G06N; image analysis, inspection, positioning or tracking G06T7/00; recognition of acoustic speech signals G10L15/00; acoustic speaker identification G10L17/00)}
<u>G06K9/00624</u>	. {Recognising scenes, i.e. recognition of a whole field of perception; recognising scene-specific objects (image retrieval G06F16/50; video retrieval G06F16/70; image analysis and image segmentation, e.g. pixel labelling G06T7/00; alarm systems G08B; traffic control G08G; pictorial communication H04N)}
<u>G06K9/00791</u>	.. {Recognising scenes perceived from the perspective of a land vehicle, e.g. recognising lanes, obstacles or traffic signs on road scenes (vehicle signalling devices B60Q9/005, B60Q1/525; viewing systems for vehicles being directed to the improvement of the driver's vision B60R1/00; means for informing the driver B60W50/14; steering aid displays B62D15/02; control of position of land vehicles using camera and image processing G05D1/0246; traffic control for road vehicles, e.g. involving several vehicles or traffic rules G08G1/00)}
G06T	IMAGE DATA PROCESSING OR GENERATION, IN GENERAL
G06T2207/00	Indexing scheme for image analysis or image enhancement
G06T2207/30	. Subject of image; Context of image processing
G06T2207/30248	.. Vehicle exterior or interior
G06T2207/30252	... Vehicle exterior; Vicinity of vehicle
<u>G06T2207/30256</u> Lane; Road marking
G08	SIGNALLING
G08G	TRAFFIC CONTROL SYSTEMS (guiding railway traffic, ensuring the safety of railway traffic B61L; arrangement of road signs or traffic signals E01F9/00; radar or analogous systems, sonar systems, lidar systems specially adapted for traffic control G01S13/91, G01S15/88, G01S17/88; {radar or analogous systems, sonar systems, lidar systems specially adapted for anti-collision purposes G01S13/93, G01S15/93, G01S17/93})
<u>G08G1/00</u>	Traffic control systems for road vehicles (arrangement of road signs or traffic signals E01F9/00 {; automatic vehicle control B62D})
<u>G08G1/16</u>	. Anti-collision systems (road vehicle drive control systems for predicting or avoiding probable or impending collision otherwise than by control of a particular sub-unit B60W30/08)
G08G1/20	. {Monitoring the location of vehicles belonging to a group, e.g. fleet of vehicles, countable or determined number of vehicles}
<u>G08G1/202</u>	.. {Dispatching vehicles on the basis of a location, e.g. taxi dispatching}
<u>G08G5/00</u>	Traffic control systems for aircraft {, e.g. air-traffic control [ATC]}
Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER

CPC/IPC/FI Symbols	Description
Y02	SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS
Y02T	TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE
<u>Y02T10/00</u>	CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO TRANSPORTATION
Y10	Road transport of goods or passengers
Y10S	TECHNICAL SUBJECTS COVERED BY FORMER USPC
<u>Y10S901/00</u>	TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS
<u>A01B</u>	Robots
<u>A01C</u>	SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting, or manuring A01C5/00; soil working for engineering purposes E01, E02, E21; {measuring areas for agricultural purposes G01B})
<u>A01D</u>	PLANTING; SOWING; FERTILISING (combined with general working of soil A01B49/04; parts, details or accessories of agricultural machines or implements, in general A01B51/00 - A01B75/00; {apparatus for spreading sand or salt E01C; sowing and fertilising with aircraft B64D1/16 - B64D1/20})
<u>A01E</u>	HARVESTING; MOWING {(parts, details or accessories of agricultural machines or implements in general A01B51/00 - A01B75/00)}
<u>A01F</u>	PROCESSING OF HARVESTED PRODUCE; HAY OR STRAW PRESSES; DEVICES FOR STORING AGRICULTURAL OR HORTICULTURAL PRODUCE (devices for topping or skinning onions or flower bulbs A23N15/08)
<u>G01S</u>	RADIO DIRECTION-FINDING; RADIO NAVIGATION; DETERMINING DISTANCE OR VELOCITY BY USE OF RADIO WAVES; LOCATING OR PRESENCE-DETECTING BY USE OF THE REFLECTION OR RERADIATION OF RADIO WAVES; ANALOGOUS ARRANGEMENTS USING OTHER WAVES

The complete description of the CPC classes with IPC- and FI-concordances can be found in the Internet at <https://www.wipo.int/classifications/ipc/ipcpub/?notion=scheme&fipcpc=yes>.

2.1.2 Japanese F-Terms Classification

FTCLA Symbols	Description
3D232	STEERING CONTROL IN ACCORDANCE WITH DRIVING CONDITIONS
3D232/CC00	CONTROL PURPOSE
3D232/CC01	. Improvement of steerage and stability *
3D232/CC20	.. Response to automatic driving including garaging function
3D246	BRAKE SYSTEMS; REGULATING BRAKING FORCE
3D246/GB00	PURPOSE OR EFFECT 2 (CONTROL FUNCTION)
3D246/GB27	. Anti-collision
5H181	TRAFFIC CONTROL SYSTEMS
5H181/LL00	ANTI-COLLISION
5H181/LL01	. preventing collisions with obstacles in front of vehicles
5H181/LL02	. preventing collisions with obstacles on the side or rear of vehicles
5H181/LL04	. preventing collisions with other vehicles
5H301	CONTROL OF POSITION, COURSE, ALTITUDE, OR ATTITUDE OF MOVING BODIES
5H301/AA00	MOVABLE SPACES, REGIONS, AND PATHS OF MOVING BODIES
5H301/AA10	. Variants that can move freely in prescribed spaces or regions
5H301/GG00	DETECTING MEANS PROVIDED ON MOVING BODIES
5H301/GG05	. Means that detect travel references, obstructions, or worked-on objects



FTCLA Symbols	Description
5H301/LL00	COLLISION PREVENTION
5H301/LL06	. Avoidance of collisions by detouring
5H301/LL11	. Prevention of collisions by controllers on moving bodies

The complete description of the F-Terms can be found in the Internet at https://www5.j-platpat.inpit.go.jp/pms/tokujitsu/pmgs_en/PMGS_EN_GM101_Top.action.

3 Keywords

The following keyword concepts were used:

- Autonomous, automated, automatic
- vehicle, driving, car, machine, robot, drone, aircraft, submarine, container,...
- self steering, self control, self guiding,
- self adapted cruise, advanced driver assistance

4 Confidence Interval for Precision

Precision is expressed in percent of relevant counts. The 95 % confidence interval for the precision of a technology field is assessed on a mix of 100 randomly selected patent families based on a binomial distribution.

Precision Confidence Interval: 83 - 95 %

5 History

Version	latest update	Comment
_05_19	24.05.2019	Refined combination
_09_19	28.08.2019	No changes
_12_19	03.12.2019	Adding and deletion of patent classes
_03_20	09.03.2020	No changes
_03_20	19.08.2020	No changes
_03_21	11.03.2021	Adding patent classes and keywords
_09_21	13.08.2021	No changes

Table 1: History



IGE | IPI
ip-search

6 Contact

For specific information regarding the technology field please contact info@ip-search.swiss

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