

Peter Gaspar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8065700/publications.pdf>

Version: 2024-02-01

235
papers

1,482
citations

566801

15
h-index

552369

26
g-index

241
all docs

241
docs citations

241
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated vehicle dynamics control via coordination of active front steering and rear braking. European Journal of Control, 2013, 19, 121-143.	1.6	187
2	Enhancing roll stability of heavy vehicle by LQR active anti-roll bar control using electronic servo-valve hydraulic actuators. Vehicle System Dynamics, 2017, 55, 1405-1429.	2.2	62
3	The Design of a Combined Control Structure to Prevent the Rollover of Heavy Vehicles. European Journal of Control, 2004, 10, 148-162.	1.6	45
4	Security issues and vulnerabilities in connected car systems. , 2015, , .		43
5	Design of vehicle cruise control using road inclinations. International Journal of Vehicle Autonomous Systems, 2013, 11, 313.	0.2	32
6	Emotions detection using facial expressions recognition and EEG. , 2016, , .		30
7	Simplified method for the preparation of fluoroalkyl iodides. Journal of Organic Chemistry, 1967, 32, 833-834.	1.7	27
8	Control Design of Variable-Geometry Suspension Considering the Construction System. IEEE Transactions on Vehicular Technology, 2013, 62, 4104-4109.	3.9	22
9	Optimal Control of Overtaking Maneuver for Intelligent Vehicles. Journal of Advanced Transportation, 2018, 2018, 1-11.	0.9	21
10	LPV design of fault-tolerant control for road vehicles. International Journal of Applied Mathematics and Computer Science, 2012, 22, 173-182.	1.5	20
11	Nonlinear analysis of vehicle control actuations based on controlled invariant sets. International Journal of Applied Mathematics and Computer Science, 2016, 26, 31-43.	1.5	20
12	Robust Control Design for Active Driver Assistance Systems. Advances in Industrial Control, 2017, , .	0.4	19
13	Coordination of Independent Steering and Torque Vectoring in a Variable-Geometry Suspension System. IEEE Transactions on Control Systems Technology, 2019, 27, 2209-2220.	3.2	19
14	Active Suspension Design using LPV Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 565-570.	0.4	18
15	Active anti-roll bar control using electronic servo valve hydraulic damper on single unit heavy vehicle. IFAC-PapersOnLine, 2016, 49, 418-425.	0.5	18
16	H ∞ active anti-roll bar control to prevent rollover of heavy vehicles: a robustness analysis. IFAC-PapersOnLine, 2016, 49, 99-104.	0.5	17
17	Optimised speed profile design of a vehicle platoon considering road inclinations. IET Intelligent Transport Systems, 2014, 8, 200-208.	1.7	16
18	Nonlinear analysis and control of a variable-geometry suspension system. Control Engineering Practice, 2017, 61, 279-291.	3.2	16

#	ARTICLE	IF	CITATIONS
19	A Novel Data-Driven Modeling and Control Design Method for Autonomous Vehicles. <i>Energies</i> , 2021, 14, 517.	1.6	14
20	Experimental verification of robustness in a semi-autonomous heavy vehicle platoon. <i>Control Engineering Practice</i> , 2014, 28, 13-25.	3.2	13
21	Hierarchical design of an electro-hydraulic actuator based on robust LPV methods. <i>International Journal of Control</i> , 2015, 88, 1429-1440.	1.2	13
22	Integrated control design for driver assistance systems based on LPV methods. <i>International Journal of Control</i> , 2016, 89, 2420-2433.	1.2	13
23	States of atomic carbon produced in decomposition of organic compounds in a microwave plasma. <i>The Journal of Physical Chemistry</i> , 1971, 75, 445-447.	2.9	12
24	H ∞ /LPV controller design for an active anti-roll bar system of heavy vehicles using parameter dependent weighting functions. <i>Heliyon</i> , 2019, 5, e01827.	1.4	12
25	Design of LPV control for autonomous vehicles using the contributions of big data analysis. <i>International Journal of Control</i> , 2022, 95, 1802-1813.	1.2	12
26	An LPV-Based Online Reconfigurable Adaptive Semi-Active Suspension Control with MR Damper. <i>Energies</i> , 2022, 15, 3648.	1.6	12
27	LPV design of fault-tolerant control for road vehicles. , 2010, , .		11
28	Road inclinations in the design of LPV-based adaptive cruise control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2202-2207.	0.4	11
29	Integration of control design and variable geometry suspension construction for vehicle stability enhancement. , 2011, , .		11
30	Design of actuator interventions in the trajectory tracking for road vehicles. , 2011, , .		11
31	Design of predictive optimization method for energy-efficient operation of trains. , 2014, , .		11
32	Design of a Low-complexity Graph-Based Motion-Planning Algorithm for Autonomous Vehicles. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7716.	1.3	11
33	Design of an embedded microcomputer based mini quadrotor UAV. , 2007, , .		10
34	Driver behaviour, truck motion and dangerous road locations – Unfolding from emergency braking data. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 65, 3-15.	3.7	10
35	Independent wheel steering control design based on variable-geometry suspension. <i>IFAC-PapersOnLine</i> , 2016, 49, 426-431.	0.5	10
36	Analysis of autonomous vehicle dynamics based on the big data approach. , 2018, , .		10

#	ARTICLE	IF	CITATIONS
37	Graph-based Multi-Vehicle Overtaking Strategy for Autonomous Vehicles. IFAC-PapersOnLine, 2019, 52, 372-377.	0.5	10
38	An Investigation into the Oil Leakage Effect Inside the Electronic Servo-valve for an \mathcal{H}_∞ /LPV Active Anti-roll Bar System. International Journal of Control, Automation and Systems, 2019, 17, 2917-2928.	1.6	10
39	The Design of an \mathcal{H}_∞ /LPV Active Braking Control to Improve Vehicle Roll Stability. IFAC-PapersOnLine, 2019, 52, 54-59.	0.5	10
40	The Relationship Between the Traffic Flow and the Look-Ahead Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1154-1164.	4.7	9
41	A predictive control for autonomous vehicles using big data analysis. IFAC-PapersOnLine, 2019, 52, 191-196.	0.5	9
42	Multicriteria Autonomous Vehicle Control at Non-Signalized Intersections. Applied Sciences (Switzerland), 2020, 10, 7161.	1.3	9
43	Reinforcement Learning Based Control Design for a Floating Piston Pneumatic Gearbox Actuator. IEEE Access, 2020, 8, 147295-147312.	2.6	9
44	The Design of Performance Guaranteed Autonomous Vehicle Control for Optimal Motion in Unsignalized Intersections. Applied Sciences (Switzerland), 2021, 11, 3464.	1.3	9
45	A grey-box identification of an LPV vehicle model for observer-based side slip angle estimation. Proceedings of the American Control Conference, 2007, , .	0.0	8
46	LPV-based control design of vehicle platoon considering road inclinations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3837-3842.	0.4	8
47	Mechanical analysis and control design of a variable-geometry McPherson suspension. International Journal of Vehicle Systems Modelling and Testing, 2012, 7, 173.	0.1	8
48	Multiple Fault-Tolerant In-Wheel Vehicle Control Based on High-level Control Reconfiguration * *The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ) Tj ETQq0 0 0 oqBT /Overclock 10 Tf Academy of Sciences.. IFAC-PapersOnLine, 2017, 50, 8606-8611.		8
49	Design of the optimal motions of autonomous vehicles in intersections through neural networks. IFAC-PapersOnLine, 2018, 51, 19-24.	0.5	8
50	Control oriented modeling of an electro-pneumatic gearbox actuator. , 2018, , .		8
51	Motion Planning for Highly Automated Road Vehicles with a Hybrid Approach Using Nonlinear Optimization and Artificial Neural Networks. Strojniski Vestnik/Journal of Mechanical Engineering, 2019, , 148-160.	0.6	8
52	Traffic Signal Control via Reinforcement Learning for Reducing Global Vehicle Emission. Sustainability, 2021, 13, 11254.	1.6	8
53	System identification with generalized orthonormal basis functions: an application to flexible structures. Control Engineering Practice, 2003, 11, 245-259.	3.2	7
54	Estimating Road Roughness by Using A Linear Parameter Varying Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 103-108.	0.4	7

#	ARTICLE	IF	CITATIONS
55	Identification and dynamic inversion-based control of a pressurizer at the Paks NPP. Control Engineering Practice, 2010, 18, 554-565.	3.2	7
56	LPV design of reconfigurable and integrated control for road vehicles. , 2011, , .		7
57	Identification of a linear driver model based on simulator experiments. , 2014, , .		7
58	Reconfigurable Fault-Tolerant Control of In-Wheel Electric Vehicles with Steering System Failure**The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles"(VKSZ 14-1-2015-0125).. IFAC-PapersOnLine, 2015, 48, 49-54.	0.5	7
59	Trajectory tracking based on independently controlled variable-geometry suspension for in-wheel electric vehicles. , 2016, , .		7
60	Multi objective H [∞] active anti-roll bar control for heavy vehicles. IFAC-PapersOnLine, 2017, 50, 13802-13807.	0.5	7
61	Vehicle Control in Highway Traffic by Using Reinforcement Learning and Microscopic Traffic Simulation. , 2020, , .		7
62	Implementation of a variable-geometry suspension-based steering control system. Vehicle System Dynamics, 2022, 60, 2018-2035.	2.2	7
63	Tracking Design for Wiener Systems Based on Dynamic Inversion. , 2006, , .		7
64	Two-level controller design for an active suspension system. , 2008, , .		6
65	Road conditions in the design of vehicle speed control using the LPV method. , 2010, , .		6
66	Vehicle modeling for integrated control design. Periodica Polytechnica Transportation Engineering, 2010, 38, 45.	0.7	6
67	Guaranteed peaks of spacing errors in an experimental vehicle string. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 759-764.	0.4	6
68	Fault-tolerant control design for trajectory tracking in driver assistance systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 186-191.	0.4	6
69	Control design of an electro-hydraulic actuator for variable-geometry suspension systems. , 2017, , .		6
70	PaaS-Oriented IoT Platform with Connected Cars Use Cases. , 2018, , .		6
71	Side-slip Angle Estimation of Autonomous Road Vehicles Based on Big Data Analysis. , 2018, , .		6
72	Control strategy for the optimization of mixed traffic flow with autonomous vehicles. IFAC-PapersOnLine, 2019, 52, 227-232.	0.5	6

#	ARTICLE	IF	CITATIONS
73	Design and robustness analysis of autonomous vehicles in intersections. IFAC-PapersOnLine, 2019, 52, 321-326.	0.5	6
74	Adaptive Semi-Active Suspension Design Considering Cloud-based Road Information. IFAC-PapersOnLine, 2019, 52, 249-254.	0.5	6
75	Sensitivity and Performance Evaluation of Multiple-Model State Estimation Algorithms for Autonomous Vehicle Functions. Journal of Advanced Transportation, 2019, 2019, 1-13.	0.9	6
76	Ensuring performance requirements for semiactive suspension with nonconventional control systems via robust linear parameter varying framework. International Journal of Robust and Nonlinear Control, 2021, 31, 8165-8182.	2.1	6
77	PHD Filter for Object Tracking in Road Traffic Applications Considering Varying Detectability. Sensors, 2021, 21, 472.	2.1	6
78	Integrated Comfort-Adaptive Cruise and Semi-Active Suspension Control for an Autonomous Vehicle: An LPV Approach. Electronics (Switzerland), 2021, 10, 813.	1.8	6
79	Fast Motion Model of Road Vehicles with Artificial Neural Networks. Electronics (Switzerland), 2021, 10, 928.	1.8	6
80	Design of Active Suspension System in the Presence of Physical Parametric Uncertainties. , 1993, , .		6
81	Design of Anti-Roll Bar Systems Based on Hierarchical Control. Strojnicki Vestnik/Journal of Mechanical Engineering, 2015, 61, 374-382.	0.6	6
82	Improving Sustainable Safe Transport via Automated Vehicle Control with Closed-Loop Matching. Sustainability, 2021, 13, 11264.	1.6	6
83	Combined LPV and nonlinear control of an active suspension system. , 2007, , .		5
84	Design of reconfigurable and fault-tolerant suspension systems based on LPV methods. , 2008, , .		5
85	Considering predicted road conditions in vehicle control design using H ∞ method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 396-401.	0.4	5
86	Road inclinations and emissions in platoon control via multi-criteria optimization. , 2012, , .		5
87	Analysis of driver behavior related to look-ahead control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 268-273.	0.4	5
88	Design of platoon velocity based on multi-criteria optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 523-528.	0.4	5
89	Challenges and Possibilities in Variable Geometry Suspension Systems. Periodica Polytechnica Transportation Engineering, 2012, 40, 81.	0.7	5
90	LPV-based Variable-Geometry Suspension Control Considering Nonlinear Tyre Characteristics**This paper was supported by the János Bolyai Research Scholarship of the Hungarian Academy of Sciences. The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ) Tj ETQq0 0 0 rgBT /Overlock 10	0.5	5

#	ARTICLE	IF	CITATIONS
91	Educational Frameworks for Vehicle Mechatronics. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3534-3542.	4.7	5
92	Reducing the mast vibration of single-mast stacker cranes by gain-scheduled control. International Journal of Applied Mathematics and Computer Science, 2016, 26, 791-802.	1.5	5
93	Effect of Low Dose Atorvastatin Therapy on Baroreflex Sensitivity in Hypertensives. High Blood Pressure and Cardiovascular Prevention, 2016, 23, 133-140.	1.0	5
94	Control design of an electro-pneumatic gearbox actuator. , 2018, , .		5
95	Model Predictive Control Design for Overtaking Maneuvers for Multi-Vehicle Scenarios. , 2019, , .		5
96	Driving on Highway by Using Reinforcement Learning with CNN and LSTM Networks. , 2020, , .		5
97	Fault-Tolerant Control Structure to Prevent the Rollover of Heavy Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 441-446.	0.4	4
98	The design of a chassis system based on multi-objective qLPV control. Periodica Polytechnica Transportation Engineering, 2008, 36, 93.	0.7	4
99	LPV design of adaptive integrated control for road vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 662-667.	0.4	4
100	Determining Truck Activity from Recorded Trajectory Data. Procedia, Social and Behavioral Sciences, 2011, 20, 796-805.	0.5	4
101	Design of an LPV-based integrated control for driver assistance systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 511-516.	0.4	4
102	Design of integrated vehicle control using driver models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 517-522.	0.4	4
103	Control design based on the integration of steering and suspension systems. , 2012, , .		4
104	Model-based H ₂ /H _∞ control design of integrated vehicle tracking systems. Periodica Polytechnica Transportation Engineering, 2012, 40, 87.	0.7	4
105	Experimental vehicle development for testing autonomous vehicle functions. , 2014, , .		4
106	Integrated vehicle control of in-wheel electric vehicle. Periodica Polytechnica Transportation Engineering, 2014, 42, 19-25.	0.7	4
107	Look-ahead control of road vehicles for safety and economy purposes. , 2014, , .		4
108	Look-ahead cruise control design in VISSIM simulation environment. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
109	Analysis and robust control design of a steering system for autonomous vehicles. , 2017, , .		4
110	Control design of traffic flow using look-ahead vehicles to increase energy efficiency. , 2017, , .		4
111	Data-Driven Reachability Analysis for the Reconfiguration of Vehicle Control Systems. IFAC-PapersOnLine, 2018, 51, 831-836.	0.5	4
112	Maximizing autonomous in-wheel electric vehicle battery state of charge with optimal control allocation. , 2019, , .		4
113	Handling of tire pressure variation in autonomous vehicles: an integrated estimation and control design approach. , 2020, , .		4
114	Control Design and Validation for Floating Piston Electro-Pneumatic Gearbox Actuator. Applied Sciences (Switzerland), 2020, 10, 3514.	1.3	4
115	Improving roll stability of tractor semi-trailer vehicles by using H ∞ active anti-roll bar control system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 3509-3520.	1.1	4
116	Tuning of Look-ahead Cruise Control in HIL Vehicle Simulator. Periodica Polytechnica Transportation Engineering, 2017, 45, 157.	0.7	4
117	Robust Fault-Tolerant Control of In-Wheel Driven Bus with Cornering Energy Minimization. Strojnicki Vestnik/Journal of Mechanical Engineering, 2017, 63, 35-44.	0.6	4
118	Highly Automated Electric Vehicle Platform for Control Education. IFAC-PapersOnLine, 2020, 53, 17296-17301.	0.5	4
119	Road adaptive semi-active suspension and cruise control through LPV technique. , 2021, , .		4
120	GM-PHD Filter Based Sensor Data Fusion for Automotive Frontal Perception System. IEEE Transactions on Vehicular Technology, 2022, 71, 7215-7229.	3.9	4
121	Adaptive Identification for Heavy-Truck Stability Control. Vehicle System Dynamics, 1996, 25, 502-518.	2.2	3
122	Observer based estimation of the wheel-rail friction coefficient. , 2006, , .		3
123	Tracking design for Wiener systems based on dynamic inversion. , 2006, , .		3
124	Enhancement of safety and economy of the vehicle platoon with the consideration of delays and disturbances. , 2011, , .		3
125	Design of a supervisory integrated control for driver assistance systems. , 2012, , .		3
126	Design of a variable-geometry suspension system to enhance road stability. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
127	Driver categorization based on vehicle motion and trajectory data. , 2015, , .		3
128	Design of look-ahead cruise control using road and traffic conditions. , 2015, , .		3
129	Adaptive Cruise Control in Longitudinal Dynamics. Advances in Industrial Control, 2017, , 135-158.	0.4	3
130	Modelling and analysis of mixed traffic flow with look-ahead controlled vehicles * *The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ 14-1-2015-0125). This paper was partially supported by the János Bolyai Research Scholarship of the Hungarian Academy of Sciences.. IFAC-PapersOnLine, 2017, 50, 15639-15644.	0.5	3
131	User Preferences Analysis Using Visual Stimuli. , 2017, , .		3
132	Cooperative object detection in road traffic 1 The research for this paper was financially supported by the Hollsi Ferenc Tudstmogat Alaptvny.. IFAC-PapersOnLine, 2017, 50, 264-269.	0.5	3
133	IMM Bernoulli Filter for Cooperative Object Tracking in Road Traffic. IFAC-PapersOnLine, 2018, 51, 355-360.	0.5	3
134	Performance and robustness assessment of H active anti-roll bar control system by using a software environment. IFAC-PapersOnLine, 2019, 52, 255-260.	0.5	3
135	Road surface estimation based LPV control design for autonomous vehicles. IFAC-PapersOnLine, 2019, 52, 120-125.	0.5	3
136	LPV-based autonomous vehicle control using the results of big data analysis on lateral dynamics. , 2020, , .		3
137	Performance Analysis of Model Predictive Intersection Control for Autonomous Vehicles. IFAC-PapersOnLine, 2021, 54, 240-245.	0.5	3
138	Design of learning-based control with guarantees for autonomous vehicles in intersections. IFAC-PapersOnLine, 2021, 54, 210-215.	0.5	3
139	Real-time optimal motion planning for automated road vehicles. IFAC-PapersOnLine, 2020, 53, 15647-15652.	0.5	3
140	Velocity selection by a human driver compared to look-ahead control. Periodica Polytechnica Transportation Engineering, 2012, 40, 45.	0.7	3
141	Data-driven modeling and control design in a hierarchical structure for a variable-geometry suspension test bed. , 2021, , .		3
142	Tracking control by integrated steering and braking systems using an observer-based estimation. , 2007, , .		2
143	Implementation of dynamic inversion-based control of a pressurizer at the Paks NPP. , 2008, , .		2
144	The design of a reconfigurable suspension control system based on an FDI filter. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
145	Control design for road-friendly suspension systems using an optimal weighting of LQ theorem. Periodica Polytechnica Transportation Engineering, 2010, 38, 61.	0.7	2
146	Model-based state-of-charge recalibration of lead-acid batteries in automotive applications. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1585-1593.	1.1	2
147	Design of variable-geometry suspension for driver assistance systems. , 2012, , .		2
148	Control of platoons containing diverse vehicles with the consideration of delays and disturbances. Periodica Polytechnica Transportation Engineering, 2012, 40, 21.	0.7	2
149	Active suspension control design for unmanned ground vehicles. Periodica Polytechnica Transportation Engineering, 2012, 40, 27.	0.7	2
150	Unfalsified uncertainty modeling for computing tight bounds on peak spacing errors in vehicle platoons. , 2013, , .		2
151	Reconfigurable control of an in-wheel electric vehicle based on LPV methods. , 2014, , .		2
152	Robust reconfigurable control for in-wheel motor vehicles. , 2014, , .		2
153	Design of an educational emulation framework for mechatronics control unit development. , 2014, , .		2
154	Model-based sensitivity analysis of the look-ahead cruise control. , 2014, , .		2
155	Improvement of the LPV-based vehicle control design considering the polynomial invariant set analysis. , 2015, , .		2
156	Simulator based driver categorization and linear model identification**The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ 14-1-2015-0125).. IFAC-PapersOnLine, 2016, 49, 255-260.	0.5	2
157	Optimal control design of a variable-geometry suspension with electro-hydraulic actuator. , 2017, , .		2
158	Simulation-based analysis of mixed traffic flow using VISSIM environment. , 2017, , .		2
159	Robust control design for the integration of steering and torque vectoring using a variable-geometry suspension system. , 2017, , .		2
160	Design of adaptive vehicle suspension using cloud-based road data. , 2017, , .		2
161	Impact of big data on the design of MPC control for autonomous vehicles. , 2019, , .		2
162	Design of Integrated Vehicle Chassis Control Based on LPV Methods. , 2012, , 513-534.		2

#	ARTICLE	IF	CITATIONS
163	Maneuver Classification for Road Vehicles with Constrained Filtering Techniques. IFAC-PapersOnLine, 2020, 53, 15495-15500.	0.5	2
164	Skills to Drive: Successor Features for Autonomous Highway Pilot. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18707-18718.	4.7	2
165	Toward Reference Architectures: A Cloud-Agnostic Data Analytics Platform Empowering Autonomous Systems. IEEE Access, 2022, 10, 60658-60673.	2.6	2
166	The Application of Linear Parameter Varying Control to Active Suspension Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 437-442.	0.4	1
167	The dynamic modelling of road vehicles for the numerical verification of active suspensions. International Journal of Vehicle Design, 2006, 40, 36.	0.1	1
168	Design of integrated control for road vehicles using LPV methods. , 2010, , .		1
169	Uncertainty modeling and control design of variable-geometry suspension. , 2011, , .		1
170	Considering predicted road conditions in platoon control design. Periodica Polytechnica Transportation Engineering, 2011, 39, 69.	0.7	1
171	Design of supervisory integrated control based on driver models in a simulation environment. , 2012, , .		1
172	Design of a Hierarchical Controller for Suspension Systems. Lecture Notes in Control and Information Sciences, 2013, , 311-328.	0.6	1
173	Design of optimal cruise control considering road and traffic information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 803-808.	0.4	1
174	Experimental verification of vehicle platoon control algorithms. Periodica Polytechnica Transportation Engineering, 2013, 41, 39.	0.7	1
175	Distributed parameter modeling of single-mast stacker crane structures. Periodica Polytechnica Transportation Engineering, 2014, 42, 1-9.	0.7	1
176	Analysis of braking dynamics using parameter-dependent polynomial Control Lyapunov Functions. , 2014, , .		1
177	Design of look-ahead control for road vehicles using traffic information. , 2014, , .		1
178	Analysis of the urban network gating problem: An SOS programming approach. , 2015, , .		1
179	Robust and fault-tolerant control of in-wheel vehicles with cornering resistance minimization. , 2016, , .		1
180	Handling of zero-crossing problems in the design of variable-geometry suspension control. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
181	Anti-roll Bars for Rollover Prevention. <i>Advances in Industrial Control</i> , 2017, , 119-134.	0.4	1
182	Design and Verification of Autonomous Steering Control Based on Driver Modeling. , 2018, , .		1
183	IMM Bernoulli Gaussian Particle Filter. <i>IFAC-PapersOnLine</i> , 2018, 51, 274-279.	0.5	1
184	Anti-Lock Braking Control Design for Electric Vehicles Using LPV Methods. , 2018, , .		1
185	Control design of variable-geometry suspension systems using a reconfiguration strategy. , 2018, , .		1
186	Coordination of automated and human-driven vehicles in intersection scenarios. , 2019, , .		1
187	Iterative parameter identification method of a vehicle odometry model. <i>IFAC-PapersOnLine</i> , 2019, 52, 199-204.	0.5	1
188	Performance Guarantees on Machine-Learning-based Overtaking Strategies for Autonomous Vehicles. , 2020, , .		1
189	LPV based data-driven modeling and control design for autonomous vehicles. , 2020, , .		1
190	Learning Latent Representation of Freeway Traffic Situations from Occupancy Grid Pictures Using Variational Autoencoder. <i>Energies</i> , 2021, 14, 5232.	1.6	1
191	Design of Integrated Control for Road Vehicles. <i>Lecture Notes in Control and Information Sciences</i> , 2013, , 213-235.	0.6	1
192	Control methods for the coordination of autonomous vehicles at intersections. , 2020, , .		1
193	Brake control using an estimation of the wheel-rail friction coefficient. , 2007, , .		1
194	Vision-based motion estimation for vehicles on test track via cone markers. , 2020, , .		1
195	Multi-objective trajectory design for overtaking maneuvers of automated vehicles. <i>IFAC-PapersOnLine</i> , 2020, 53, 15566-15571.	0.5	1
196	Lateral Control Design for Autonomous Vehicles Using a Big Data-Based Approach. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 1137-1143.	0.3	1
197	Design of fault-tolerant cruise control in a hierarchical framework for connected automated vehicles. , 2021, , .		1
198	Identification of kinematic vehicle model parameters for localization purposes. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
199	ITERATIVE DESIGN OF VEHICLE COMBINATIONS FOR STABILITY ENHANCEMENT. Vehicle System Dynamics, 1998, 29, 451-461.	2.2	0
200	The design of the FDI filter for the yaw-roll control of heavy vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 435-440.	0.4	0
201	Different Polytopic Decomposition of the Model of Heavy Vehicles by TP model transformation. , 2007, , .		0
202	A grey-box identification of an LPV vehicle model with side slip angle estimation. , 2007, , .		0
203	H ∞ gain-scheduling based control of the heavy vehicle model, a TP model transformation based control. , 2008, , .		0
204	Observer-Based Brake Control for Railways. Lecture Notes in Control and Information Sciences, 2013, , 331-346.	0.6	0
205	System architecture and hierarchical control for in-wheel electric motor vehicles. , 2014, , .		0
206	Design of wireless gateway between on-board vehicle wired networks and mobile devices. , 2014, , .		0
207	Multi-body modelling of single-mast stacker cranes. International Journal of Engineering Systems Modelling and Simulation, 2016, 8, 218.	0.2	0
208	The impact of suspension control on the controllability of the lateral vehicle dynamics. , 2016, , .		0
209	Analysis of interactions between look-ahead control and traffic speed. , 2016, , .		0
210	Analysis of Look-ahead Control on Traffic Flow**The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ 14-1-2015-0125). This paper was partly supported by the Janos Bolyai Research Scholarship of the Hungarian Academy of Sciences.. IFAC-PapersOnLine, 2016, 49, 261-266.	0.5	0
211	Implementation of a robust cruise control using look-ahead method. IFAC-PapersOnLine, 2016, 49, 505-510.	0.5	0
212	The impact of traffic flow on the look-ahead cruise control. , 2016, , .		0
213	Reconfigurable Control Design of Steering and Torque Vectoring Based on Reachability Set Analysis *The research was supported by the National Research, Development and Innovation Fund through the project "SEPPAC: Safety and Economic Platform for Partially Automated Commercial vehicles" (VKSZ) Tj ETQq1 b.0.784314 rgBT /Ov Hungarian Academy of Sciences.. IFAC PapersOnLine, 2017, 50, 3702-3707.		0
214	MPC-Based Coordinated Control Design for Look-Ahead Vehicles and Traffic Flow. , 2018, , .		0
215	Cloud Aided Implementation of Energy Optimal Look-ahead Speed Control. IFAC-PapersOnLine, 2018, 51, 361-366.	0.5	0
216	Modeling of driver steering behavior for the control design of automated vehicles. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
217	State estimation of an electro-pneumatic gearbox actuator. IFAC-PapersOnLine, 2019, 52, 329-334.	0.5	0
218	LPV-Based Controller Design of a Floating Piston Pneumatic Actuator. Actuators, 2020, 9, 98.	1.2	0
219	Predictive Speed Control for Automated Vehicles in Urban Area using Speed Zones. , 2020, , .		0
220	LPV control for autonomous vehicles using a machine learning-based tire pressure estimation. , 2020, , .		0
221	The design of a brake control to improve road holding. Periodica Polytechnica Transportation Engineering, 2008, 36, 99.	0.7	0
222	Model-Based Control Design of Integrated Vehicle Systems. Studies in Computational Intelligence, 2009, , 103-119.	0.7	0
223	Model-based LQ control design of integrated vehicle tracking systems. Periodica Polytechnica Transportation Engineering, 2011, 39, 77.	0.7	0
224	Enhancement of Driver Speed Based on Multi-Criteria Optimization. Periodica Polytechnica Transportation Engineering, 2013, 41, 71.	0.7	0
225	Worst-Case Performance Analysis in ℓ_1 -norm for an Automated Heavy Vehicle Platoon. Lecture Notes in Electrical Engineering, 2014, , 115-130.	0.3	0
226	Control Design of In-Wheel Motors. Advances in Industrial Control, 2017, , 199-211.	0.4	0
227	Driver Models in the Control Systems. Advances in Industrial Control, 2017, , 213-229.	0.4	0
228	Optimizing Traffic Control for a Minimization of Fuel Consumptions and Emission Values. , 2017, , 99-101.		0
229	A Novel Big-data-based Estimation Method of Side-slip Angles for Autonomous Road Vehicles. , 2018, , .		0
230	A Novel Big-data-based Estimation Method of Side-slip Angles for Autonomous Road Vehicles. , 2018, , .		0
231	MPC-Based Coordinated Control Design of the Ramp Metering. Advances in Industrial Control, 2019, , 133-149.	0.4	0
232	Data-Driven Coordination Design of Traffic Control. Advances in Industrial Control, 2019, , 151-167.	0.4	0
233	LPV-based control for automated driving using data-driven methods. IFAC-PapersOnLine, 2020, 53, 13898-13903.	0.5	0
234	Fault-Tolerant Trajectory Tracking Control for Autonomous Vehicle Based on Camera and GPS. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
235	Calibration of the Nonlinear Wheel Odometry Model with an Improved Genetic Algorithm Architecture. , 2022, , .		0