

# Peter Gaspar

## List of Publications by Year in descending order

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235  
papers

1,482  
citations

566801

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552369

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241  
all docs

241  
docs citations

241  
times ranked

888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of LPV control for autonomous vehicles using the contributions of big data analysis. International Journal of Control, 2022, 95, 1802-1813.	1.2	12
2	Implementation of a variable-geometry suspension-based steering control system. Vehicle System Dynamics, 2022, 60, 2018-2035.	2.2	7
3	Skills to Drive: Successor Features for Autonomous Highway Pilot. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18707-18718.	4.7	2
4	GM-PHD Filter Based Sensor Data Fusion for Automotive Frontal Perception System. IEEE Transactions on Vehicular Technology, 2022, 71, 7215-7229.	3.9	4
5	An LPV-Based Online Reconfigurable Adaptive Semi-Active Suspension Control with MR Damper. Energies, 2022, 15, 3648.	1.6	12
6	Toward Reference Architectures: A Cloud-Agnostic Data Analytics Platform Empowering Autonomous Systems. IEEE Access, 2022, 10, 60658-60673.	2.6	2
7	Calibration of the Nonlinear Wheel Odometry Model with an Improved Genetic Algorithm Architecture. , 2022, , .		0
8	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
9	PHD Filter for Object Tracking in Road Traffic Applications Considering Varying Detectability. Sensors, 2021, 21, 472.	2.1	6
10	Performance Analysis of Model Predictive Intersection Control for Autonomous Vehicles. IFAC-PapersOnLine, 2021, 54, 240-245.	0.5	3
11	Integrated Comfort-Adaptive Cruise and Semi-Active Suspension Control for an Autonomous Vehicle: An LPV Approach. Electronics (Switzerland), 2021, 10, 813.	1.8	6
12	Fast Motion Model of Road Vehicles with Artificial Neural Networks. Electronics (Switzerland), 2021, 10, 928.	1.8	6
13	The Design of Performance Guaranteed Autonomous Vehicle Control for Optimal Motion in Unsignalized Intersections. Applied Sciences (Switzerland), 2021, 11, 3464.	1.3	9
14	Improving roll stability of tractor semi-trailer vehicles by using H $\infty$ 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
15	Learning Latent Representation of Freeway Traffic Situations from Occupancy Grid Pictures Using Variational Autoencoder. Energies, 2021, 14, 5232.	1.6	1
16	Design of learning-based control with guarantees for autonomous vehicles in intersections. IFAC-PapersOnLine, 2021, 54, 210-215.	0.5	3
17	A Novel Data-Driven Modeling and Control Design Method for Autonomous Vehicles. Energies, 2021, 14, 517.	1.6	14
18	Improving Sustainable Safe Transport via Automated Vehicle Control with Closed-Loop Matching. Sustainability, 2021, 13, 11264.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Traffic Signal Control via Reinforcement Learning for Reducing Global Vehicle Emission. Sustainability, 2021, 13, 11254.	1.6	8
20	Design of fault-tolerant cruise control in a hierarchical framework for connected automated vehicles. , 2021, , .		1
21	Road adaptive semi-active suspension and cruise control through LPV technique. , 2021, , .		4
22	Fault-Tolerant Trajectory Tracking Control for Autonomous Vehicle Based on Camera and GPS. , 2021, , .		0
23	Data-driven modeling and control design in a hierarchical structure for a variable-geometry suspension test bed. , 2021, , .		3
24	LPV-Based Controller Design of a Floating Piston Pneumatic Actuator. Actuators, 2020, 9, 98.	1.2	0
25	Vehicle Control in Highway Traffic by Using Reinforcement Learning and Microscopic Traffic Simulation. , 2020, , .		7
26	Design of a Low-complexity Graph-Based Motion-Planning Algorithm for Autonomous Vehicles. Applied Sciences (Switzerland), 2020, 10, 7716.	1.3	11
27	LPV-based autonomous vehicle control using the results of big data analysis on lateral dynamics. , 2020, , .		3
28	Driving on Highway by Using Reinforcement Learning with CNN and LSTM Networks. , 2020, , .		5
29	Handling of tire pressure variation in autonomous vehicles: an integrated estimation and control design approach. , 2020, , .		4
30	Predictive Speed Control for Automated Vehicles in Urban Area using Speed Zones. , 2020, , .		0
31	Multicriteria Autonomous Vehicle Control at Non-Signalized Intersections. Applied Sciences (Switzerland), 2020, 10, 7161.	1.3	9
32	Performance Guarantees on Machine-Learning-based Overtaking Strategies for Autonomous Vehicles. , 2020, , .		1
33	LPV based data-driven modeling and control design for autonomous vehicles. , 2020, , .		1
34	LPV control for autonomous vehicles using a machine learning-based tire pressure estimation. , 2020, , .		0
35	Reinforcement Learning Based Control Design for a Floating Piston Pneumatic Gearbox Actuator. IEEE Access, 2020, 8, 147295-147312.	2.6	9
36	Control Design and Validation for Floating Piston Electro-Pneumatic Gearbox Actuator. Applied Sciences (Switzerland), 2020, 10, 3514.	1.3	4

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37	Real-time optimal motion planning for automated road vehicles. IFAC-PapersOnLine, 2020, 53, 15647-15652.	0.5	3
38	Control methods for the coordination of autonomous vehicles at intersections. , 2020, , .		1
39	LPV-based control for automated driving using data-driven methods. IFAC-PapersOnLine, 2020, 53, 13898-13903.	0.5	0
40	Vision-based motion estimation for vehicles on test track via cone markers. , 2020, , .		1
41	Maneuver Classification for Road Vehicles with Constrained Filtering Techniques. IFAC-PapersOnLine, 2020, 53, 15495-15500.	0.5	2
42	Multi-objective trajectory design for overtaking maneuvers of automated vehicles. IFAC-PapersOnLine, 2020, 53, 15566-15571.	0.5	1
43	Highly Automated Electric Vehicle Platform for Control Education. IFAC-PapersOnLine, 2020, 53, 17296-17301.	0.5	4
44	Lateral Control Design for Autonomous Vehicles Using a Big Data-Based Approach. Lecture Notes in Mechanical Engineering, 2020, , 1137-1143.	0.3	1
45	Identification of kinematic vehicle model parameters for localization purposes. , 2020, , .		1
46	Impact of big data on the design of MPC control for autonomous vehicles. , 2019, , .		2
47	A predictive control for autonomous vehicles using big data analysis. IFAC-PapersOnLine, 2019, 52, 191-196.	0.5	9
48	State estimation of an electro-pneumatic gearbox actuator. IFAC-PapersOnLine, 2019, 52, 329-334.	0.5	0
49	Graph-based Multi-Vehicle Overtaking Strategy for Autonomous Vehicles. IFAC-PapersOnLine, 2019, 52, 372-377.	0.5	10
50	Control strategy for the optimization of mixed traffic flow with autonomous vehicles. IFAC-PapersOnLine, 2019, 52, 227-232.	0.5	6
51	An Investigation into the Oil Leakage Effect Inside the Electronic Servo-valve for an $H_{\infty}$ /LPV Active Anti-roll Bar System. International Journal of Control, Automation and Systems, 2019, 17, 2917-2928.	1.6	10
52	Model Predictive Control Design for Overtaking Maneuvers for Multi-Vehicle Scenarios. , 2019, , .		5
53	Maximizing autonomous in-wheel electric vehicle battery state of charge with optimal control allocation. , 2019, , .		4
54	Design and robustness analysis of autonomous vehicles in intersections. IFAC-PapersOnLine, 2019, 52, 321-326.	0.5	6

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55	Performance and robustness assessment of H $\infty$ active anti-roll bar control system by using a software environment. IFAC-PapersOnLine, 2019, 52, 255-260.	0.5	3
56	Adaptive Semi-Active Suspension Design Considering Cloud-based Road Information. IFAC-PapersOnLine, 2019, 52, 249-254.	0.5	6
57	H $\infty$ /LPV controller design for an active anti-roll bar system of heavy vehicles using parameter dependent weighting functions. Heliyon, 2019, 5, e01827.	1.4	12
58	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
59	Coordination of automated and human-driven vehicles in intersection scenarios. , 2019, , .		1
60	Road surface estimation based LPV control design for autonomous vehicles. IFAC-PapersOnLine, 2019, 52, 120-125.	0.5	3
61	Iterative parameter identification method of a vehicle odometry model. IFAC-PapersOnLine, 2019, 52, 199-204.	0.5	1
62	The Design of an H $\infty$ /LPV Active Braking Control to Improve Vehicle Roll Stability. IFAC-PapersOnLine, 2019, 52, 54-59.	0.5	10
63	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
64	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
65	MPC-Based Coordinated Control Design of the Ramp Metering. Advances in Industrial Control, 2019, , 133-149.	0.4	0
66	Data-Driven Coordination Design of Traffic Control. Advances in Industrial Control, 2019, , 151-167.	0.4	0
67	MPC-Based Coordinated Control Design for Look-Ahead Vehicles and Traffic Flow. , 2018, , .		0
68	Design and Verification of Autonomous Steering Control Based on Driver Modeling. , 2018, , .		1
69	PaaS-Oriented IoT Platform with Connected Cars Use Cases. , 2018, , .		6
70	Design of the optimal motions of autonomous vehicles in intersections through neural networks. IFAC-PapersOnLine, 2018, 51, 19-24.	0.5	8
71	IMM Bernoulli Filter for Cooperative Object Tracking in Road Traffic. IFAC-PapersOnLine, 2018, 51, 355-360.	0.5	3
72	Cloud Aided Implementation of Energy Optimal Look-ahead Speed Control. IFAC-PapersOnLine, 2018, 51, 361-366.	0.5	0

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73	Data-Driven Reachability Analysis for the Reconfiguration of Vehicle Control Systems. IFAC-PapersOnLine, 2018, 51, 831-836.	0.5	4
74	IMM Bernoulli Gaussian Particle Filter. IFAC-PapersOnLine, 2018, 51, 274-279.	0.5	1
75	Analysis of autonomous vehicle dynamics based on the big data approach. , 2018, , .		10
76	Optimal Control of Overtaking Maneuver for Intelligent Vehicles. Journal of Advanced Transportation, 2018, 2018, 1-11.	0.9	21
77	Control oriented modeling of an electro-pneumatic gearbox actuator. , 2018, , .		8
78	Side-slip Angle Estimation of Autonomous Road Vehicles Based on Big Data Analysis. , 2018, , .		6
79	Anti-Lock Braking Control Design for Electric Vehicles Using LPV Methods. , 2018, , .		1
80	Control design of an electro-pneumatic gearbox actuator. , 2018, , .		5
81	Modeling of driver steering behavior for the control design of automated vehicles. , 2018, , .		0
82	Control design of variable-geometry suspension systems using a reconfiguration strategy. , 2018, , .		1
83	A Novel Big-data-based Estimation Method of Side-slip Angles for Autonomous Road Vehicles. , 2018, , .		0
84	A Novel Big-data-based Estimation Method of Side-slip Angles for Autonomous Road Vehicles. , 2018, , .		0
85	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
86	Optimal control design of a variable-geometry suspension with electro-hydraulic actuator. , 2017, , .		2
87	Simulation-based analysis of mixed traffic flow using VISSIM environment. , 2017, , .		2
88	Anti-roll Bars for Rollover Prevention. Advances in Industrial Control, 2017, , 119-134.	0.4	1
89	Adaptive Cruise Control in Longitudinal Dynamics. Advances in Industrial Control, 2017, , 135-158.	0.4	3
90	Multi objective H <sup>∞</sup> active anti-roll bar control for heavy vehicles. IFAC-PapersOnLine, 2017, 50, 13802-13807.	0.5	7

#	ARTICLE	IF	CITATIONS
91	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
92	Analysis and robust control design of a steering system for autonomous vehicles. , 2017, , .		4
93	Control design of an electro-hydraulic actuator for variable-geometry suspension systems. , 2017, , .		6
94	User Preferences Analysis Using Visual Stimuli. , 2017, , .		3
95	Robust control design for the integration of steering and torque vectoring using a variable-geometry suspension system. , 2017, , .		2
96	Control design of traffic flow using look-ahead vehicles to increase energy efficiency. , 2017, , .		4
97	Robust Control Design for Active Driver Assistance Systems. Advances in Industrial Control, 2017, , .	0.4	19
98	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
99	Design of adaptive vehicle suspension using cloud-based road data. , 2017, , .		2
100	Cooperative object detection in road traffic 1 1The 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
101	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 ETQq1 1 0.754314 rgBT /Overlock 100	0.5	3
102	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 ETQq0 0.5 rgBT /Overlock 100	0.5	3
103	Hungarian Academy of Sciences.. IFAC-PapersOnLine, 2017, 50, 3702-3707. Nonlinear analysis and control of a variable-geometry suspension system. Control Engineering Practice, 2017, 61, 279-291.	3.2	16
104	Tuning of Look-ahead Cruise Control in HIL Vehicle Simulator. Periodica Polytechnica Transportation Engineering, 2017, 45, 157.	0.7	4
105	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
106	Control Design of In-Wheel Motors. Advances in Industrial Control, 2017, , 199-211.	0.4	0
107	Driver Models in the Control Systems. Advances in Industrial Control, 2017, , 213-229.	0.4	0
108	Optimizing Traffic Control for a Minimization of Fuel Consumptions and Emission Values. , 2017, , 99-101.		0

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109	Multi-body modelling of single-mast stacker cranes. International Journal of Engineering Systems Modelling and Simulation, 2016, 8, 218.	0.2	0
110	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
111	Robust and fault-tolerant control of in-wheel vehicles with cornering resistance minimization. , 2016, , .		1
112	Handling of zero-crossing problems in the design of variable-geometry suspension control. , 2016, , .		1
113	The impact of suspension control on the controllability of the lateral vehicle dynamics. , 2016, , .		0
114	Analysis of interactions between look-ahead control and traffic speed. , 2016, , .		0
115	Trajectory tracking based on independently controlled variable-geometry suspension for in-wheel electric vehicles. , 2016, , .		7
116	Effect of Low Dose Atorvastatin Therapy on Baroreflex Sensitivity in Hypertensives. High Blood Pressure and Cardiovascular Prevention, 2016, 23, 133-140.	1.0	5
117	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
118	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
119	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
120	Implementation of a robust cruise control using look-ahead method. IFAC-PapersOnLine, 2016, 49, 505-510.	0.5	0
121	Independent wheel steering control design based on variable-geometry suspension. IFAC-PapersOnLine, 2016, 49, 426-431.	0.5	10
122	H $\infty$ active anti-roll bar control to prevent rollover of heavy vehicles: a robustness analysis. IFAC-PapersOnLine, 2016, 49, 99-104.	0.5	17
123	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
124	Emotions detection using facial expressions recognition and EEG. , 2016, , .		30
125	The impact of traffic flow on the look-ahead cruise control. , 2016, , .		0
126	Integrated control design for driver assistance systems based on LPV methods. International Journal of Control, 2016, 89, 2420-2433.	1.2	13



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127	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
128	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
129	Look-ahead cruise control design in VISSIM simulation environment. , 2015, , .		4
130	Driver categorization based on vehicle motion and trajectory data. , 2015, , .		3
131	Educational Frameworks for Vehicle Mechatronics. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3534-3542.	4.7	5
132	Analysis of the urban network gating problem: An SOS programming approach. , 2015, , .		1
133	Design of look-ahead cruise control using road and traffic conditions. , 2015, , .		3
134	Security issues and vulnerabilities in connected car systems. , 2015, , .		43
135	Hierarchical design of an electro-hydraulic actuator based on robust LPV methods. International Journal of Control, 2015, 88, 1429-1440.	1.2	13
136	Improvement of the LPV-based vehicle control design considering the polynomial invariant set analysis. , 2015, , .		2
137	Design of Anti-Roll Bar Systems Based on Hierarchical Control. Strojnicki Vestnik/Journal of Mechanical Engineering, 2015, 61, 374-382.	0.6	6
138	Reconfigurable control of an in-wheel electric vehicle based on LPV methods. , 2014, , .		2
139	Design of a variable-geometry suspension system to enhance road stability. , 2014, , .		3
140	Experimental vehicle development for testing autonomous vehicle functions. , 2014, , .		4
141	System architecture and hierarchical control for in-wheel electric motor vehicles. , 2014, , .		0
142	Robust reconfigurable control for in-wheel motor vehicles. , 2014, , .		2
143	Distributed parameter modeling of single-mast stacker crane structures. Periodica Polytechnica Transportation Engineering, 2014, 42, 1-9.	0.7	1
144	Integrated vehicle control of in-wheel electric vehicle. Periodica Polytechnica Transportation Engineering, 2014, 42, 19-25.	0.7	4

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145	Analysis of braking dynamics using parameter-dependent polynomial Control Lyapunov Functions. , 2014, , .		1
146	Optimised speed profile design of a vehicle platoon considering road inclinations. IET Intelligent Transport Systems, 2014, 8, 200-208.	1.7	16
147	Design of wireless gateway between on-board vehicle wired networks and mobile devices. , 2014, , .		0
148	Design of an educational emulation framework for mechatronics control unit development. , 2014, , .		2
149	Identification of a linear driver model based on simulator experiments. , 2014, , .		7
150	Driver behaviour, truck motion and dangerous road locations “ Unfolding from emergency braking data. Transportation Research, Part E: Logistics and Transportation Review, 2014, 65, 3-15.	3.7	10
151	Look-ahead control of road vehicles for safety and economy purposes. , 2014, , .		4
152	Design of predictive optimization method for energy-efficient operation of trains. , 2014, , .		11
153	Experimental verification of robustness in a semi-autonomous heavy vehicle platoon. Control Engineering Practice, 2014, 28, 13-25.	3.2	13
154	Model-based sensitivity analysis of the look-ahead cruise control. , 2014, , .		2
155	Design of look-ahead control for road vehicles using traffic information. , 2014, , .		1
156	Worst-Case Performance Analysis in $\ell_1$ -norm for an Automated Heavy Vehicle Platoon. Lecture Notes in Electrical Engineering, 2014, , 115-130.	0.3	0
157	Control Design of Variable-Geometry Suspension Considering the Construction System. IEEE Transactions on Vehicular Technology, 2013, 62, 4104-4109.	3.9	22
158	Integrated vehicle dynamics control via coordination of active front steering and rear braking. European Journal of Control, 2013, 19, 121-143.	1.6	187
159	Observer-Based Brake Control for Railways. Lecture Notes in Control and Information Sciences, 2013, , 331-346.	0.6	0
160	Design of a Hierarchical Controller for Suspension Systems. Lecture Notes in Control and Information Sciences, 2013, , 311-328.	0.6	1
161	Unfalsified uncertainty modeling for computing tight bounds on peak spacing errors in vehicle platoons. , 2013, , .		2
162	Design of vehicle cruise control using road inclinations. International Journal of Vehicle Autonomous Systems, 2013, 11, 313.	0.2	32

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163	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
164	Experimental verification of vehicle platoon control algorithms. Periodica Polytechnica Transportation Engineering, 2013, 41, 39.	0.7	1
165	Design of Integrated Control for Road Vehicles. Lecture Notes in Control and Information Sciences, 2013, , 213-235.	0.6	1
166	Enhancement of Driver Speed Based on Multi-Criteria Optimization. Periodica Polytechnica Transportation Engineering, 2013, 41, 71.	0.7	0
167	Model-based state-of-charge recalibration of leadâ€‘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
168	Design of a supervisory integrated control for driver assistance systems. , 2012, , .		3
169	LPV design of fault-tolerant control for road vehicles. International Journal of Applied Mathematics and Computer Science, 2012, 22, 173-182.	1.5	20
170	Road inclinations and emissions in platoon control via multi-criteria optimization. , 2012, , .		5
171	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
172	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
173	Design of integrated vehicle control using driver models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 517-522.	0.4	4
174	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
175	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
176	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
177	Control design based on the integration of steering and suspension systems. , 2012, , .		4
178	Design of supervisory integrated control based on driver models in a simulation environment. , 2012, , .		1
179	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
180	Design of variable-geometry suspension for driver assistance systems. , 2012, , .		2

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181	Control of platoons containing diverse vehicles with the consideration of delays and disturbances. Periodica Polytechnica Transportation Engineering, 2012, 40, 21.	0.7	2
182	Active suspension control design for unmanned ground vehicles. Periodica Polytechnica Transportation Engineering, 2012, 40, 27.	0.7	2
183	Model-based H <sub>2</sub> /H <sub>∞</sub> control design of integrated vehicle tracking systems. Periodica Polytechnica Transportation Engineering, 2012, 40, 87.	0.7	4
184	Challenges and Possibilities in Variable Geometry Suspension Systems. Periodica Polytechnica Transportation Engineering, 2012, 40, 81.	0.7	5
185	Design of Integrated Vehicle Chassis Control Based on LPV Methods. , 2012, , 513-534.		2
186	Velocity selection by a human driver compared to look-ahead control. Periodica Polytechnica Transportation Engineering, 2012, 40, 45.	0.7	3
187	Enhancement of safety and economy of the vehicle platoon with the consideration of delays and disturbances. , 2011, , .		3
188	Uncertainty modeling and control design of variable-geometry suspension. , 2011, , .		1
189	Considering predicted road conditions in platoon control design. Periodica Polytechnica Transportation Engineering, 2011, 39, 69.	0.7	1
190	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
191	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
192	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
193	Determining Truck Activity from Recorded Trajectory Data. Procedia, Social and Behavioral Sciences, 2011, 20, 796-805.	0.5	4
194	Integration of control design and variable geometry suspension construction for vehicle stability enhancement. , 2011, , .		11
195	LPV design of reconfigurable and integrated control for road vehicles. , 2011, , .		7
196	Design of actuator interventions in the trajectory tracking for road vehicles. , 2011, , .		11
197	Model-based LQ control design of integrated vehicle tracking systems. Periodica Polytechnica Transportation Engineering, 2011, 39, 77.	0.7	0
198	Considering predicted road conditions in vehicle control design using H <sub>∞</sub> method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 396-401.	0.4	5

#	ARTICLE	IF	CITATIONS
199	Road conditions in the design of vehicle speed control using the LPV method. , 2010, , .		6
200	Identification and dynamic inversion-based control of a pressurizer at the Paks NPP. Control Engineering Practice, 2010, 18, 554-565.	3.2	7
201	Control design for road-friendly suspension systems using an optimal weighting of LQ theorem. Periodica Polytechnica Transportation Engineering, 2010, 38, 61.	0.7	2
202	Vehicle modeling for integrated control design. Periodica Polytechnica Transportation Engineering, 2010, 38, 45.	0.7	6
203	LPV design of fault-tolerant control for road vehicles. , 2010, , .		11
204	Design of integrated control for road vehicles using LPV methods. , 2010, , .		1
205	Model-Based Control Design of Integrated Vehicle Systems. Studies in Computational Intelligence, 2009, , 103-119.	0.7	0
206	Implementation of dynamic inversion-based control of a pressurizer at the Paks NPP. , 2008, , .		2
207	Design of reconfigurable and fault-tolerant suspension systems based on LPV methods. , 2008, , .		5
208	The design of a reconfigurable suspension control system based on an FDI filter. , 2008, , .		2
209	H <sub>∞</sub> gain-scheduling based control of the heavy vehicle model, a TP model transformation based control. , 2008, , .		0
210	Two-level controller design for an active suspension system. , 2008, , .		6
211	The design of a chassis system based on multi-objective qLPV control. Periodica Polytechnica Transportation Engineering, 2008, 36, 93.	0.7	4
212	The design of a brake control to improve road holding. Periodica Polytechnica Transportation Engineering, 2008, 36, 99.	0.7	0
213	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
214	Different Polytopic Decomposition of the Model of Heavy Vehicles by TP model transformation. , 2007, , .		0
215	Combined LPV and nonlinear control of an active suspension system. , 2007, , .		5
216	A grey-box identification of an LPV vehicle model with side slip angle estimation. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
217	Design of an embedded microcomputer based mini quadrotor UAV. , 2007, , .		10
218	Tracking control by integrated steering and braking systems using an observer-based estimation. , 2007, , .		2
219	Brake control using an estimation of the wheel-rail friction coefficient. , 2007, , .		1
220	The dynamic modelling of road vehicles for the numerical verification of active suspensions. International Journal of Vehicle Design, 2006, 40, 36.	0.1	1
221	Observer based estimation of the wheel-rail friction coefficient. , 2006, , .		3
222	Tracking design for Wiener systems based on dynamic inversion. , 2006, , .		3
223	Tracking Design for Wiener Systems Based on Dynamic Inversion. , 2006, , .		7
224	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
225	Active Suspension Design using LPV Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 565-570.	0.4	18
226	System identification with generalized orthonormal basis functions: an application to flexible structures. Control Engineering Practice, 2003, 11, 245-259.	3.2	7
227	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
228	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
229	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
230	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
231	ITERATIVE DESIGN OF VEHICLE COMBINATIONS FOR STABILITY ENHANCEMENT. Vehicle System Dynamics, 1998, 29, 451-461.	2.2	0
232	Adaptive Identification for Heavy-Truck Stability Control. Vehicle System Dynamics, 1996, 25, 502-518.	2.2	3
233	Design of Active Suspension System in the Presence of Physical Parametric Uncertainties. , 1993, , .		6
234	States of atomic carbon produced in decomposition of organic compounds in a microwave plasma. The Journal of Physical Chemistry, 1971, 75, 445-447.	2.9	12

#	ARTICLE	IF	CITATIONS
235	Simplified method for the preparation of fluoroalkyl iodides. Journal of Organic Chemistry, 1967, 32, 833-834.	1.7	27