

Karolos Grigoriadis

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

520
citations

758635

12
h-index

752256

20
g-index

60
all docs

60
docs citations

60
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	A parameter-varying filtered PID strategy for air-fuel ratio control of spark ignition engines. Control Engineering Practice, 2012, 20, 805-815.	3.2	60
2	A low-dimensional model for describing the oxygen storage capacity and transient behavior of a three-way catalytic converter. Chemical Engineering Science, 2012, 73, 373-387.	1.9	42
3	Real-time brake torque estimation for internal combustion engines. Mechanical Systems and Signal Processing, 2008, 22, 338-361.	4.4	40
4	Spatio-temporal dynamics of oxygen storage and release in a three-way catalytic converter. Chemical Engineering Science, 2014, 111, 180-190.	1.9	37
5	Second-Order Sliding Mode Strategy for Air-Fuel Ratio Control of Lean-Burn SI Engines. IEEE Transactions on Control Systems Technology, 2014, 22, 1374-1384.	3.2	30
6	Linear dynamic parameter-varying sliding manifold for air-fuel ratio control in lean-burn engines. IET Control Theory and Applications, 2013, 7, 1319-1329.	1.2	21
7	An intelligent approach to optimize multiphase subsea oil fields lifted by electrical submersible pumps. Journal of Computational Science, 2016, 15, 50-59.	1.5	20
8	Robust IMC-PID and Parameter-varying Control Strategies for Automated Blood Pressure Regulation. International Journal of Control, Automation and Systems, 2019, 17, 1803-1813.	1.6	20
9	Modelling of petroleum multiphase flow in electrical submersible pumps with shallow artificial neural networks. Ships and Offshore Structures, 2020, 15, 174-183.	0.9	20
10	LPV decoupling and input shaping for control of diesel engines. , 2010, , .		19
11	Robust linear parameter-varying control of blood pressure using vasoactive drugs. International Journal of Control, 2015, 88, 2013-2029.	1.2	19
12	Sampled-data control of LPV systems using input delay approach. , 2012, , .		16
13	A survey on diagnostics methods for automotive engines. , 2011, , .		15
14	A dynamic feedback control strategy for control loops with time-varying delay. International Journal of Control, 2014, 87, 887-897.	1.2	14
15	Low-Dimensional Modeling of Transient Two-Phase Flow in Pipelines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	12
16	Compensation of hysteresis in a shape memory alloy wire system using linear parameter-varying gain scheduling control. IET Control Theory and Applications, 2014, 8, 1875-1885.	1.2	10
17	Reciprocal convex approach to output-feedback control of uncertain LPV systems with fast-varying input delay. International Journal of Robust and Nonlinear Control, 2019, 29, 5744-5764.	2.1	10
18	LPV decoupling for control of multivariable systems. International Journal of Control, 2011, 84, 1350-1361.	1.2	9

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19	Delay-dependent H_∞ control for LPV systems with fast-varying time delays. , 2012, , .		9
20	Closed-Loop System Identification Based on Data Correlation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	8
21	Stability and performance analysis of time-delay LPV systems with brief instability. International Journal of Robust and Nonlinear Control, 2011, 21, 863-882.	2.1	7
22	Real-Time Diagnosis of the Exhaust Recirculation in Diesel Engines Using Least-Squares Parameter Estimation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	6
23	Fundamentals-based low-dimensional combustion modeling of spark-ignited internal combustion engines. AIChE Journal, 2011, 57, 2472-2492.	1.8	6
24	Gain-scheduling control of a cable-driven MRI-compatible robotic platform for intracardiac interventions. , 2013, , .		6
25	Parameter-Varying Loop-Shaping for Delayed Air-Fuel Ratio Control in Lean-Burn SI Engines. , 2016, , .		6
26	Delay-Dependent Output-Feedback Control for Blood Pressure Regulation Using LPV Techniques. , 2019, , .		6
27	Internal model control for a class of uncertain time-delay systems. , 2016, , .		5
28	Real-Time Cubature Kalman Filter Parameter Estimation of Blood Pressure Response Characteristics Under Vasoactive Drugs Administration. , 2020, , .		5
29	Sliding mode control design of an electrostatic microactuator using LPV schemes. , 2012, , .		4
30	Real-time and robust estimation of biodiesel blends. Fuel, 2012, 92, 37-48.	3.4	4
31	ANFIS based modeling and inverse control of a thin SMA wire. , 2008, , .		3
32	Model-based early gas kick and well loss detection. , 2016, , .		3
33	Cluster-based correlation of severe driving events with time and location. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 516-531.	2.6	3
34	Transmission Line Modeling of Inclined Compressible Fluid Flows. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	3
35	An explicit robust stability condition for uncertain time-varying first-order plus dead-time systems. ISA Transactions, 2022, 126, 171-179.	3.1	3
36	LPV decoupling for multivariable control system design. , 2009, , .		2

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37	Automotive Three-Way Catalyst Diagnostics with Experimental Results. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	2
38	Implementation of a force-feedback interface for robotic assisted interventions with real-time MRI guidance. , 2013, , .		2
39	A Predictive Strategy to Control Time-Varying Delay Systems: Lean-Burn Engines. , 2015, , .		2
40	Output Tracking in First-Order Time-Delay Systems: A Dynamic Control Approach. IFAC-PapersOnLine, 2015, 48, 269-274.	0.5	2
41	Robust linear parameter-varying output-feedback control of permanent magnet synchronous motors. Systems Science and Control Engineering, 2021, 9, 612-622.	1.8	2
42	Gain-scheduled output-feedback control of uncertain input-delay LPV systems with saturation via polytopic differential inclusion. International Journal of Systems Science, 2022, 53, 1579-1599.	3.7	2
43	Integrated design of dynamic controller with fault diagnosis and tolerance. , 2009, , .		1
44	Model based failure detection of Diesel Particulate Filter. , 2011, , .		1
45	Model-based estimation of ethanol content in flexible fuel vehicles. , 2011, , .		1
46	Scaled Small-Gain Approach to Robust Control of LPV Systems with Uncertain Varying Delay. , 2021, , .		1
47	An Improved Integral Inequality for Delay-Dependent Gain-Scheduled LPV Control. Frontiers in Control Engineering, 2021, 2, .	0.4	1
48	Design and analysis of a prototype haptic device for cardiovascular interventions. , 2010, , .		0
49	Anti-windup LPV control of pitch actuators in wind turbines. , 2012, , .		0
50	Sampled-data filter design for linear parameter varying systems. , 2012, , .		0
51	Stabilizing dynamic control design for systems with time-varying delay in control loop. , 2014, , .		0
52	Physics-based lumped-parameter modeling of automotive canister fuel purge. , 2015, , .		0
53	A new method of parameter-varying filter design for LPV systems with time-varying state delay. , 2015, , .		0
54	Physics-Based Lumped-Parameter Modeling of Automotive Canister Fuel Purge. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	0

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55	Bayesian Estimation for Model Parameters and Time Delay of Blood Pressure Response to Phenylephrine Drug Infusion. , 2018, , .		0
56	Full- and Reduced-Order Fault Detection Filter Design With Application in Flow Transmission Lines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	0
57	A Generalized Sector Condition Approach to Observer-Based Control of Input-Delay LPV Systems under Saturation and Matched Disturbances. , 2021, , .		0
58	Low Pressure Experimental Validation of Low-Dimensional Analytical Model for Air-Water Two-Phase Transient Flow in Horizontal Pipelines. Fluids, 2021, 6, 220.	0.8	0
59	LPV Delay-Dependent Sampled-Data Output-Feedback Control of Fueling in Spark Ignition Engines. IFAC-PapersOnLine, 2021, 54, 927-934.	0.5	0
60	Observer-Based Control of LPV Systems with Input Delay and Saturation and Matched Disturbances via a Generalized Sector Condition. Frontiers in Control Engineering, 2021, 2, .	0.4	0