Michel Dambrine

List of Publications by Year
in descending order

43 papers	1,241 citations	623734 14 h-index	610901 24 g-index
43 all docs	43 docs citations	43 times ranked	1067 citing authors

#	Article	IF	Citations
1	Computational Reduction of Optimal Hybrid Vehicle Energy Management. , 2022, 6, 25-30.		0
2	Fuzzy descriptor tracking control with guaranteed Lâˆž error-bound for robot manipulators. Transactions of the Institute of Measurement and Control, 2021, 43, 1404-1415.	1.7	3
3	Reduced-Complexity Affine Representation for Takagi-Sugeno Fuzzy Systems. IFAC-PapersOnLine, 2020, 53, 8031-8036.	0.9	4
4	A note on non asymptotic stabilization of linear time delay systems. , 2020, , .		1
5	Nonlinear Tracking Control with Reduced Complexity of Serial Robots: A Robust Fuzzy Descriptor Approach. International Journal of Fuzzy Systems, 2019, 21, 1038-1050.	4.0	16
6	Disturbance-Observer Based Tracking Control of Industrial SCARA Robot Manipulators. , 2019, , .		2
7	A Robust Descriptor Approach for Nonlinear Tracking Control of Serial Robots. , 2018, , .		2
8	LMI-based 2-DoF control design of a manipulator via T-S descriptor approach. IFAC-PapersOnLine, 2018, 51, 102-107.	0.9	2
9	Takagi-Sugeno fuzzy descriptor approach for trajectory control of a 2-DOF serial manipulator. , 2018, , .		3
10	LMI-Based Stability Analysis for Piecewise Multi-affine Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 707-714.	9.8	14
11	Static output feedback design for a class of constrained Takagiâ€"Sugeno fuzzy systems. Journal of the Franklin Institute, 2017, 354, 2856-2870.	3.4	28
12	Modeling and PDC fuzzy control of planar parallel robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668711.	2.1	3
13	Robust stabilizing controller design for Takagiâ€"Sugeno fuzzy descriptor systems under state constraints and actuator saturation. Fuzzy Sets and Systems, 2017, 329, 77-90.	2.7	34
14	Simultaneous Design of Parallel Distributed Output Feedback and Antiâ€"windup Compensators for Constrained Takagiâ€"Sugeno Fuzzy Systems. Asian Journal of Control, 2016, 18, 1641-1654.	3.0	18
15	Experimental study on the stability of an impedance-type force-feedback architecture based on an augmented-state observer for a haptic system under time delay using a LMI approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 58-71.	1.0	2
16	Augmented observer approach for high-impedance haptic system with time delay. Mathematics and Computers in Simulation, 2015, 113, 51-68.	4.4	2
17	Simultaneous LMI-based design of dynamic output feedback controller and anti-windup compensator for constrained Takagi-Sugeno fuzzy systems subject to persistent disturbances. , 2015, , .		1
18	Anti-windup based dynamic output feedback controller design with performance consideration for constrained Takagiâ€"Sugeno systems. Engineering Applications of Artificial Intelligence, 2015, 40, 76-83.	8.1	38

#	Article	IF	Citations
19	Design and implementation of a robust fuzzy controller for a rotary inverted pendulum using the Takagi-Sugeno descriptor representation. , 2014, , .		11
20	Step-crossing control of two-wheeled transporter based on Takagi-Sugeno approach: Comparison between state and descriptor form. , 2014, , .		0
21	Lyapunovâ€based robust control design for a class of switching nonâ€linear systems subject to input saturation: application to engine control. IET Control Theory and Applications, 2014, 8, 1789-1802.	2.1	30
22	Step-crossing feasibility of two-wheeled transporter: Analysis based on Takagi-Sugeno descriptor approach. , 2014, , .		2
23	Optimal control based algorithms for energy management of automotive power systems with battery/supercapacitor storage devices. Energy Conversion and Management, 2014, 87, 410-420.	9.2	64
24	Feedback Linearization-Based Control Approach for Air System of a Turbocharged SI Engine: Toward a Fuel-Optimal Strategy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2994-2999.	0.4	0
25	Robust control of two-wheeled self-balanced transporter on sloping ground: A Takagi-Sugeno descriptor approach. , 2013, , .		5
26	Multi-objective control design for turbocharged spark ignited air system: A switching Takagi-Sugeno model approach. , 2013, , .		7
27	H_∞ launch control of a dry dual clutch transmission based on uncertain TS models. , 2013, , .		2
28	Robust H^∞ control design for switching uncertain system: Application for turbocharged gasoline air system control. , 2012, , .		10
29	Improved LMI conditions for stability analysis of discrete-time haptic system under time-varying communication delays. , 2012, , .		0
30	Robust H^∞ control for the turbocharged air system using the multiple model approach. , 2012, , .		1
31	Fouling detection in a heat exchanger by observer of Takagiâ€"Sugeno type for systems with unknown polynomial inputs. Engineering Applications of Artificial Intelligence, 2012, 25, 1558-1566.	8.1	55
32	PDC Control Design for Non-holonomic Wheeled Mobile Robots with Delayed Outputs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 60, 395-414.	3.4	45
33	Control under quantization, saturation and delay: An LMI approach. Automatica, 2009, 45, 2258-2264.	5.0	215
34	Tracking-error model-based PDC control for mobile robots with acceleration limits. , 2009, , .		5
35	On input-to-state stability of systems with time-delay: A matrix inequalities approach. Automatica, 2008, 44, 2364-2369.	5.0	137
36	Finite-time stability and stabilization of time-delay systems. Systems and Control Letters, 2008, 57, 561-566.	2.3	289

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37	Input-to-State Stability of Time-Delay Systems: A Link With Exponential Stability. IEEE Transactions on Automatic Control, 2008, 53, 1526-1531.	5.7	78
38	On-line moving-obstacle avoidance using piecewise Bezier curves with unknown obstacle trajectory. , 2008, , .		10
39	Control under Quantization, Saturation and Delay: An LMI Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3787-3792.	0.4	8
40	Relation between Exponential Stability and Input-to-State Stability of Time-Delay Systems. Proceedings of the American Control Conference, 2007, , .	0.0	6
41	On matrix inequalities approach to input to state stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 53-58.	0.4	5
42	Editorial to the IJSS Special Issue on Time Delay Systems: Theory and Control. International Journal of Systems Science, 2003, 34, 495-495.	5.5	0
43	Stability of perturbed systems with time-varying delays. Systems and Control Letters, 1997, 31, 155-163.	2.3	83