

# Michel Dambrine

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2725628/publications.pdf>

Version: 2024-02-01

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	Finite-time stability and stabilization of time-delay systems. <i>Systems and Control Letters</i> , 2008, 57, 561-566.	2.3	289
2	Control under quantization, saturation and delay: An LMI approach. <i>Automatica</i> , 2009, 45, 2258-2264.	5.0	215
3	On input-to-state stability of systems with time-delay: A matrix inequalities approach. <i>Automatica</i> , 2008, 44, 2364-2369.	5.0	137
4	Stability of perturbed systems with time-varying delays. <i>Systems and Control Letters</i> , 1997, 31, 155-163.	2.3	83
5	Input-to-State Stability of Time-Delay Systems: A Link With Exponential Stability. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 1526-1531.	5.7	78
6	Optimal control based algorithms for energy management of automotive power systems with battery/supercapacitor storage devices. <i>Energy Conversion and Management</i> , 2014, 87, 410-420.	9.2	64
7	Fouling detection in a heat exchanger by observer of Takagi-Sugeno type for systems with unknown polynomial inputs. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 1558-1566.	8.1	55
8	PDC Control Design for Non-holonomic Wheeled Mobile Robots with Delayed Outputs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2010, 60, 395-414.	3.4	45
9	Anti-windup based dynamic output feedback controller design with performance consideration for constrained Takagi-Sugeno systems. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 40, 76-83.	8.1	38
10	Robust stabilizing controller design for Takagi-Sugeno fuzzy descriptor systems under state constraints and actuator saturation. <i>Fuzzy Sets and Systems</i> , 2017, 329, 77-90.	2.7	34
11	Lyapunov-based robust control design for a class of switching non-linear systems subject to input saturation: application to engine control. <i>IET Control Theory and Applications</i> , 2014, 8, 1789-1802.	2.1	30
12	Static output feedback design for a class of constrained Takagi-Sugeno fuzzy systems. <i>Journal of the Franklin Institute</i> , 2017, 354, 2856-2870.	3.4	28
13	Simultaneous Design of Parallel Distributed Output Feedback and Anti-windup Compensators for Constrained Takagi-Sugeno Fuzzy Systems. <i>Asian Journal of Control</i> , 2016, 18, 1641-1654.	3.0	18
14	Nonlinear Tracking Control with Reduced Complexity of Serial Robots: A Robust Fuzzy Descriptor Approach. <i>International Journal of Fuzzy Systems</i> , 2019, 21, 1038-1050.	4.0	16
15	LMI-Based Stability Analysis for Piecewise Multi-affine Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 707-714.	9.8	14
16	Design and implementation of a robust fuzzy controller for a rotary inverted pendulum using the Takagi-Sugeno descriptor representation. , 2014, , .		11
17	On-line moving-obstacle avoidance using piecewise Bezier curves with unknown obstacle trajectory. , 2008, , .		10
18	Robust $H^\infty$ control design for switching uncertain system: Application for turbocharged gasoline air system control. , 2012, , .		10

#	ARTICLE	IF	CITATIONS
19	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
20	Multi-objective control design for turbocharged spark ignited air system: A switching Takagi-Sugeno model approach. , 2013, , .		7
21	Relation between Exponential Stability and Input-to-State Stability of Time-Delay Systems. Proceedings of the American Control Conference, 2007, , .	0.0	6
22	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
23	Tracking-error model-based PDC control for mobile robots with acceleration limits. , 2009, , .		5
24	Robust control of two-wheeled self-balanced transporter on sloping ground: A Takagi-Sugeno descriptor approach. , 2013, , .		5
25	Reduced-Complexity Affine Representation for Takagi-Sugeno Fuzzy Systems. IFAC-PapersOnLine, 2020, 53, 8031-8036.	0.9	4
26	Modeling and PDC fuzzy control of planar parallel robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668711.	2.1	3
27	Takagi-Sugeno fuzzy descriptor approach for trajectory control of a 2-DOF serial manipulator. , 2018, , .		3
28	Fuzzy descriptor tracking control with guaranteed $L_\infty$ error-bound for robot manipulators. Transactions of the Institute of Measurement and Control, 2021, 43, 1404-1415.	1.7	3
29	$H_\infty$ launch control of a dry dual clutch transmission based on uncertain TS models. , 2013, , .		2
30	Step-crossing feasibility of two-wheeled transporter: Analysis based on Takagi-Sugeno descriptor approach. , 2014, , .		2
31	Augmented observer approach for high-impedance haptic system with time delay. Mathematics and Computers in Simulation, 2015, 113, 51-68.	4.4	2
32	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
33	A Robust Descriptor Approach for Nonlinear Tracking Control of Serial Robots. , 2018, , .		2
34	LMI-based 2-DoF control design of a manipulator via T-S descriptor approach. IFAC-PapersOnLine, 2018, 51, 102-107.	0.9	2
35	Disturbance-Observer Based Tracking Control of Industrial SCARA Robot Manipulators. , 2019, , .		2
36	Robust $H_\infty$ control for the turbocharged air system using the multiple model approach. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	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
38	A note on non asymptotic stabilization of linear time delay systems. , 2020, , .		1
39	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
40	Improved LMI conditions for stability analysis of discrete-time haptic system under time-varying communication delays. , 2012, , .		0
41	Step-crossing control of two-wheeled transporter based on Takagi-Sugeno approach: Comparison between state and descriptor form. , 2014, , .		0
42	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
43	Computational Reduction of Optimal Hybrid Vehicle Energy Management. , 2022, 6, 25-30.		0