

Antoine Dequidt

List of Publications by Year in descending order

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32
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296
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuzzy descriptor tracking control with guaranteed L_2 error-bound for robot manipulators. Transactions of the Institute of Measurement and Control, 2021, 43, 1404-1415.	1.1	3
2	Reduced-Complexity Affine Representation for Takagi-Sugeno Fuzzy Systems. IFAC-PapersOnLine, 2020, 53, 8031-8036.	0.5	4
3	Stabilizing unstable biomechanical model to understand sitting stability for persons with spinal cord injury. IFAC-PapersOnLine, 2020, 53, 8001-8006.	0.5	7
4	A generic architecture to design Cyber-Physical and Human Systems. IFAC-PapersOnLine, 2020, 53, 344-349.	0.5	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.	2.3	16
6	Disturbance-Observer Based Tracking Control of Industrial SCARA Robot Manipulators. , 2019, , .		2
7	LMI approach for robust stabilization of Takagi-Sugeno descriptor systems with input saturation. IMA Journal of Mathematical Control and Information, 2018, 35, 1103-1114.	1.1	5
8	A Robust Descriptor Approach for Nonlinear Tracking Control of Serial Robots. , 2018, , .		2
9	LMI-based 2-DoF control design of a manipulator via T-S descriptor approach. IFAC-PapersOnLine, 2018, 51, 102-107.	0.5	2
10	Takagi-Sugeno fuzzy descriptor approach for trajectory control of a 2-DOF serial manipulator. , 2018, , .		3
11	Design and Control of an Assistive Device for the Study of the Post-stroke Sit-To-Stand Movement. Journal of Bionic Engineering, 2018, 15, 647-660.	2.7	8
12	Static output feedback design for a class of constrained Takagi-Sugeno fuzzy systems. Journal of the Franklin Institute, 2017, 354, 2856-2870.	1.9	28
13	An augmented system approach for LMI-based control design of constrained Takagi-Sugeno fuzzy systems. Engineering Applications of Artificial Intelligence, 2017, 61, 96-102.	4.3	18
14	Modeling and PDC fuzzy control of planar parallel robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668711.	1.3	3
15	Robust stabilizing controller design for Takagi-Sugeno fuzzy descriptor systems under state constraints and actuator saturation. Fuzzy Sets and Systems, 2017, 329, 77-90.	1.6	34
16	Improved LMI Conditions for Local Quadratic Stabilization of Constrained Takagi-Sugeno Fuzzy Systems. International Journal of Fuzzy Systems, 2017, 19, 225-237.	2.3	10
17	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.	0.7	2
18	Augmented observer approach for high-impedance haptic system with time delay. Mathematics and Computers in Simulation, 2015, 113, 51-68.	2.4	2

#	ARTICLE	IF	CITATIONS
19	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
20	Anti-windup based dynamic output feedback controller design with performance consideration for constrained Takagi-Sugeno systems. Engineering Applications of Artificial Intelligence, 2015, 40, 76-83.	4.3	38
21	Sliding Mode Control of Biglide Planar Parallel Manipulator. , 2014, , .		1
22	Design and implementation of a robust fuzzy controller for a rotary inverted pendulum using the Takagi-Sugeno descriptor representation. , 2014, , .		11
23	Step-crossing control of two-wheeled transporter based on Takagi-Sugeno approach: Comparison between state and descriptor form. , 2014, , .		0
24	Step-crossing feasibility of two-wheeled transporter: Analysis based on Takagi-Sugeno descriptor approach. , 2014, , .		2
25	Robust control of two-wheeled self-balanced transporter on sloping ground: A Takagi-Sugeno descriptor approach. , 2013, , .		5
26	Dynamics of railway track subjected to distributed and local out-of-round wheels. Mechanics and Industry, 2013, 14, 347-359.	0.5	5
27	Revisiting the inverse dynamics of the Gough-Stewart platform manipulator with special emphasis on universal-prismatic-spherical leg and internal singularity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2422-2439.	1.1	8
28	Improved LMI conditions for stability analysis of discrete-time haptic system under time-varying communication delays. , 2012, , .		0
29	Motion control of planar parallel robot using the fuzzy descriptor system approach. ISA Transactions, 2012, 51, 596-608.	3.1	55
30	Modeling, control and experimental verification on a two-wheeled vehicle with free inclination: An urban transportation system. Control Engineering Practice, 2011, 19, 744-756.	3.2	33
31	Using the redundant inverse kinematics system for collision avoidance. , 2010, , .		3
32	Mechanical pre-design of high performance motion servomechanisms. Mechanism and Machine Theory, 2000, 35, 1047-1063.	2.7	21