

Laurent Vermeiren

List of Publications by Year in descending order

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20
papers

988
citations

1478505

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all docs

20
docs citations

20
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	LMI-based relaxed nonquadratic stabilization conditions for nonlinear systems in the Takagi-Sugeno's form. Automatica, 2004, 40, 823-829.	5.0	793
2	Motion control of planar parallel robot using the fuzzy descriptor system approach. ISA Transactions, 2012, 51, 596-608.	5.7	55
3	Robust stabilizing controller design for Takagi-Sugeno fuzzy descriptor systems under state constraints and actuator saturation. Fuzzy Sets and Systems, 2017, 329, 77-90.	2.7	34
4	Modeling, control and experimental verification on a two-wheeled vehicle with free inclination: An urban transportation system. Control Engineering Practice, 2011, 19, 744-756.	5.5	33
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	Design and implementation of a robust fuzzy controller for a rotary inverted pendulum using the Takagi-Sugeno descriptor representation. , 2014, , .		11
7	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.	2.1	8
8	Application of practical fuzzy arithmetic to fuzzy internal model control. Engineering Applications of Artificial Intelligence, 2011, 24, 1006-1017.	8.1	6
9	Robust control of two-wheeled self-balanced transporter on sloping ground: A Takagi-Sugeno descriptor approach. , 2013, , .		5
10	LMI approach for robust stabilization of Takagi-Sugeno descriptor systems with input saturation. IMA Journal of Mathematical Control and Information, 2018, 35, 1103-1114.	1.7	5
11	Reduced-Complexity Affine Representation for Takagi-Sugeno Fuzzy Systems. IFAC-PapersOnLine, 2020, 53, 8031-8036.	0.9	4
12	Modeling and PDC fuzzy control of planar parallel robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668711.	2.1	3
13	Takagi-Sugeno fuzzy descriptor approach for trajectory control of a 2-DOF serial manipulator. , 2018, , .		3
14	Fuzzy descriptor tracking control with guaranteed L_∞ error-bound for robot manipulators. Transactions of the Institute of Measurement and Control, 2021, 43, 1404-1415.	1.7	3
15	Step-crossing feasibility of two-wheeled transporter: Analysis based on Takagi-Sugeno descriptor approach. , 2014, , .		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	A Robust Descriptor Approach for Nonlinear Tracking Control of Serial Robots. , 2018, , .		2
18	LMI-based 2-DoF control design of a manipulator via T-S descriptor approach. IFAC-PapersOnLine, 2018, 51, 102-107.	0.9	2

#	ARTICLE	IF	CITATIONS
19	Aggregation and fuzzification by weighted fuzzy fusion operator. , 2007, , .		1
20	Step-crossing control of two-wheeled transporter based on Takagi-Sugeno approach: Comparison between state and descriptor form. , 2014, , .		0