Laurent Vermeiren

List of Publications by Year
in descending order

20 papers	988 citations	1478505 6 h-index	1125743 13 g-index
20 all docs	20 docs citations	20 times ranked	577 citing authors

#	Article	IF	Citations
1	Fuzzy descriptor tracking control with guaranteed Lˆž error-bound for robot manipulators. Transactions of the Institute of Measurement and Control, 2021, 43, 1404-1415.	1.7	3
2	Reduced-Complexity Affine Representation for Takagi-Sugeno Fuzzy Systems. IFAC-PapersOnLine, 2020, 53, 8031-8036.	0.9	4
3	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
4	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
5	A Robust Descriptor Approach for Nonlinear Tracking Control of Serial Robots. , 2018, , .		2
6	LMI-based 2-DoF control design of a manipulator via T-S descriptor approach. IFAC-PapersOnLine, 2018, 51, 102-107.	0.9	2
7	Takagi-Sugeno fuzzy descriptor approach for trajectory control of a 2-DOF serial manipulator. , 2018, , .		3
8	Modeling and PDC fuzzy control of planar parallel robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668711.	2.1	3
9	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
10	Augmented observer approach for high-impedance haptic system with time delay. Mathematics and Computers in Simulation, 2015, 113, 51-68.	4.4	2
11	Design and implementation of a robust fuzzy controller for a rotary inverted pendulum using the Takagi-Sugeno descriptor representation. , 2014, , .		11
12	Step-crossing control of two-wheeled transporter based on Takagi-Sugeno approach: Comparison between state and descriptor form. , 2014, , .		0
13	Step-crossing feasibility of two-wheeled transporter: Analysis based on Takagi-Sugeno descriptor approach. , 2014, , .		2
14	Robust control of two-wheeled self-balanced transporter on sloping ground: A Takagi-Sugeno descriptor approach. , 2013, , .		5
15	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
16	Motion control of planar parallel robot using the fuzzy descriptor system approach. ISA Transactions, 2012, 51, 596-608.	5.7	55
17	Application of practical fuzzy arithmetic to fuzzy internal model control. Engineering Applications of Artificial Intelligence, 2011, 24, 1006-1017.	8.1	6
18	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

#	Article	IF	Citations
19	Aggregation and fuzzification by weighted fuzzy fusion operator. , 2007, , .		1
20	LMI-based relaxed nonquadratic stabilization conditions for nonlinear systems in the Takagiâ€"Sugeno's form. Automatica, 2004, 40, 823-829.	5.0	793