

# Victor Estrada-Manzo

## List of Publications by Year in descending order

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39  
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39  
docs citations

39  
times ranked

258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observer design for Takagi-Sugeno descriptor models: An LMI approach. Automatica, 2015, 52, 154-159.	5.0	97
2	Controller Design for Discrete-Time Descriptor Models: A Systematic LMI Approach. IEEE Transactions on Fuzzy Systems, 2015, 23, 1608-1621.	9.8	31
3	Convex Stability Analysis of Nonlinear Singular Systems via Linear Matrix Inequalities. IEEE Transactions on Automatic Control, 2019, 64, 1740-1745.	5.7	29
4	Generalized LMI observer design for discrete-time nonlinear descriptor models. Neurocomputing, 2016, 182, 210-220.	5.9	20
5	An exact handling of the gradient for overcoming persistent problems in nonlinear observer design via convex optimization techniques. Fuzzy Sets and Systems, 2021, 416, 125-140.	2.7	19
6	Fuzzy unknown input observer for understanding sitting control of persons living with spinal cord injury. Engineering Applications of Artificial Intelligence, 2018, 67, 381-389.	8.1	17
7	Actuator fault estimation based on a proportional-integral observer with nonquadratic Lyapunov functions. International Journal of Systems Science, 2021, 52, 1938-1951.	5.5	13
8	Improvements on non-quadratic stabilization of continuous-time Takagi-Sugeno descriptor models. , 2013, , .		12
9	Discrete-time Takagi-Sugeno descriptor models: observer design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7965-7969.	0.4	11
10	Unknown input estimation for nonlinear descriptor systems via LMIs and Takagi-Sugeno models. , 2015, , .		10
11	Gain-scheduled $H_\infty$ admissibilisation of LPV discrete-time systems with LPV singular descriptor. International Journal of Systems Science, 2017, 48, 3215-3224.	5.5	10
12	An alternative LMI static output feedback control design for discrete-time nonlinear systems represented by Takagi-Sugeno models. ISA Transactions, 2019, 84, 104-110.	5.7	10
13	Unknown input observer based on discrete-time nonlinear descriptor model for understanding sitting control. IFAC-PapersOnLine, 2017, 50, 820-825.	0.9	8
14	How a person with spinal cord injury controls a sitting situation Unknown input observer and delayed feedback control with time-varying input delay. , 2016, , .		6
15	Unknown Input Observer for Understanding Sitting Control of Persons with Spine Cord Injury. IFAC-PapersOnLine, 2016, 49, 175-181.	0.9	6
16	An LMI approach for observer design for Takagi-Sugeno descriptor models. , 2014, , .		5
17	Discrete-time Takagi-Sugeno descriptor models: Controller design. , 2014, , .		5
18	A Novel Identification-Based Convex Control Scheme via Recurrent High-Order Neural Networks: An Application to the Internal Combustion Engine. Neural Processing Letters, 2020, 51, 303-324.	3.2	5

#	ARTICLE	IF	CITATIONS
19	Output feedback control for T-S discrete-time nonlinear descriptor models. , 2014, , .		4
20	A Methodology for Real-Time Implementation of Nonlinear Observers via Convex Optimization. , 2018, , .		4
21	Nonlinear output regulation via Takagi-Sugeno fuzzy mappings: A full-information LMI approach. , 2012, , .		3
22	Static output feedback control for continuous-time TS descriptor models: Decoupling the Lyapunov function. , 2015, , .		3
23	Stabilization of Nonlinear Singular Systems via Takagi-Sugeno Models and Robust Differentiators. International Journal of Fuzzy Systems, 2018, 20, 1451-1459.	4.0	3
24	Improving observer design for discrete-time TS descriptor models under the quadratic framework. IFAC-PapersOnLine, 2015, 48, 276-281.	0.9	2
25	Nonlinear convex control of the Furuta pendulum based on its descriptor model. , 2016, , .		2
26	LMI-Based Exponential Estimates for Time-Delay Nonlinear Descriptor Systems – This work has been supported by the postdoctoral fellowship for CVU 366627, the ITSON Projects PROFAPI CA-18 2017-0088 and 2018-1062, and PFCE 2016-17. Juan Carlos Arceo was student at ITSON under CONACYT scholarship 415714 during the realization of this work.. IFAC-PapersOnLine, 2018, 51, 139-144.	0.9	2
27	LMI-Based Controller Design for Time-Delay Nonlinear Descriptor Systems with Guaranteed Exponential Estimates. IFAC-PapersOnLine, 2018, 51, 585-590.	0.9	2
28	SEPNATC Fault Detection and Isolation via a Novel Convex Optimization Scheme. IEEE Latin America Transactions, 2019, 17, 1096-1101.	1.6	2
29	Actuator Fault Detection for Discrete-Time Descriptor Systems via a Convex Unknown Input Observer with Unknown Scheduling Variables. Mathematical Problems in Engineering, 2021, 2021, 1-16.	1.1	2
30	LMI-based fault detection and isolation of nonlinear descriptor systems. , 2017, , .		1
31	Real-time parallel distributed compensation of an inverted pendulum via exact Takagi-Sugeno models. , 2017, , .		1
32	Exact Takagi-Sugeno descriptor models of recurrent high-order neural networks for control applications. Computational and Applied Mathematics, 2020, 39, 1.	2.2	1
33	Diseño de Observadores No Lineales para Plantas Mecatrónicas por Medio de LMIs. P. DI Boletín Científico De Ciencias Básicas E Ingenierías Del ICBI, 2021, 8, 75-81.	0.0	1
34	Adaptive Nonlinear Observer Design via a Polytopic Split of Signals. IFAC-PapersOnLine, 2020, 53, 7953-7958.	0.9	1
35	Choosing an Adequate Convex Structure for Controller and Observer Gains in Takagi-Sugeno Control Systems. IFAC-PapersOnLine, 2021, 54, 206-211.	0.9	1
36	Observer Design for Robotic Systems via Takagi-Sugeno Models and Linear Matrix Inequalities. Studies in Systems, Decision and Control, 2015, , 103-128.	1.0	0

#	ARTICLE	IF	CITATIONS
37	LMI-Based Analysis and Stabilization of Nonlinear Descriptors with Multiple Delays via Delayed Nonlinear Controller Schemes. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-19.	1.1	0
38	On the nonlinear output regulation for systems described by Takagi-Sugeno fuzzy descriptor models with a steady-state mapping as an LMI optimization problem. <i>PÃ©,DI BoletÃn CientÃfico De Ciencias BÃsicas E IngenierÃas Del ICBI</i> , 2022, 9, 85-91.	0.0	0