Horst Schulte

List of Publications by Year
in descending order

28 papers	422 citations	1307594 7 h-index	1058476 14 g-index
29 all docs	29 docs citations	29 times ranked	376 citing authors

#	Article	IF	Citations
1	Fuzzy state feedback gain scheduling control of servo-pneumatic actuators. Control Engineering Practice, 2004, 12, 639-650.	5.5	84
2	Benchmark problems for nonlinear system identification and control using Soft Computing methods: Need and overview. Applied Soft Computing Journal, 2014, 25, 496-513.	7.2	66
3	Effective wind speed estimation: Comparison between Kalman Filter and Takagi–Sugeno observer techniques. ISA Transactions, 2016, 62, 60-72.	5.7	42
4	Stabilization of positive constrained T–S fuzzy systems: Application to a Buck converter. Journal of the Franklin Institute, 2014, 351, 4111-4123.	3.4	40
5	Fault-tolerant control of wind turbines with hydrostatic transmission using Takagi–Sugeno and sliding mode techniques. Annual Reviews in Control, 2015, 40, 82-92.	7.9	40
6	Control-oriented modelling of wind turbines using a Takagi-Sugeno model structure. , 2012, , .		37
7	Fault estimation and fault-tolerant control of the FAST NREL 5-MW reference wind turbine using a proportional multi-integral observer. International Journal of Adaptive Control and Signal Processing, 2018, 32, 568-585.	4.1	37
8	Control-oriented description of large scale wind turbines with hydrostatic transmission using Takagi-Sugeno models. , 2014, , .		12
9	Actuator fault diagnosis and fault-tolerant control of wind turbines using a Takagi-Sugeno sliding mode observer. , 2013, , .		10
10	Modeling and optimal torque control of small wind turbines with permanent magnet synchronous generators. , 2017, , .		9
11	Estimation of Multiple Faults in Hydrostatic Wind Turbines using Takagi-Sugeno Sliding Mode Observer with Weighted Switching Action. IFAC-PapersOnLine, 2016, 49, 194-199.	0.9	8
12	Fault reconstruction using a Takagi-Sugeno sliding mode observer for the wind turbine benchmark. , 2014, , .		6
13	Takagi-Sugeno sliding mode observer design for load estimation and sensor fault detection in wind turbines. , 2012, , .		5
14	Fault-Tolerant Control of Wind Turbines using a Takagi-Sugeno Sliding Mode Observer. Journal of Physics: Conference Series, 2014, 524, 012053.	0.4	5
15	Grid Forming Stator Flux Control of Doubly-Fed Induction Generator. Energies, 2021, 14, 6766.	3.1	5
16	Takagi-Sugeno sliding mode observer for friction compensation with application to an inverted pendulum. , 2013, , .		4
17	Stability analysis of small horizontal-axis wind turbines using Takagi-Sugeno fuzzy models. , 2013, , .		2
18	Analyse der Eingang-Zustand-Stabilität von Kleinwindanlagen mit LMI-Bedingungen. Automatisierungstechnik, 2014, 62, 698-707.	0.8	2

#	Article	IF	Citations
19	Hardware-in-the-Loop Test-Bed for Benchmarking of Fault Tolerant Control Schemes for Wind Turbines. IFAC-PapersOnLine, 2015, 48, 1375-1382.	0.9	2
20	Safety Analysis of Longitudinal Motion Controllers during Climb Flight. Modelirovanie I Analiz Informacionnyh Sistem, 2019, 26, 488-501.	0.3	2
21	H<sup>&#x221E;</sup> criteria for robust actuator fault reconstruction for nonlinear systems in Takagi-Sugeno's form using sliding modes. , 2015, , .		1
22	Optimization of Takagi-Sugeno Observers with Application to Fault Estimation. IFAC-PapersOnLine, 2018, 51, 127-132.	0.9	1
23	Particle Filter Design for Effective Wind Speed Estimation of Wind Turbines. , 2018, , .		1
24	Coordinate transformation of Takagi-Sugeno models: Stability conditions and observer canonical forms. , 2014, , .		0
25	ISS for nonlinear systems in Takagi-Sugeno's form using quadratic and non-quadratic Lyapunov functions. , 2015, , .		0
26	Entwurf von Proportional-Multi-Integral Beobachtern in Takagi-Sugeno Fuzzy Form zur Schätzung unbekannter Eingänge. Automatisierungstechnik, 2017, 65, 167-178.	0.8	0
27	Nonlinear Quadratic Estimator with selective error state weighting. , 2017, , .		0
28	Notes on Recent Achievements in Proving Stability using KeYmaeraX. Modelirovanie I Analiz Informacionnyh Sistem, 2021, 28, 326-336.	0.3	0