Jason S H Tsai

List of Publications by Year
in descending order

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36	309	933447	940533
papers	citations	10 h-index	16 g-index

36	36	36	264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Delay-Dependent Approach to Passivity Analysis for Uncertain Neural Networks with Time-varying Delay. Neural Processing Letters, 2008, 27, 237-246.	3.2	47
2	On robust stabilization of uncertain stochastic time-delay systemsâ€”an LMI-based approach. Journal of the Franklin Institute, 2005, 342, 473-487.	3.4	28
3	Actuator fault detection and performance recovery with Kalman filter-based adaptive observer. International Journal of General Systems, 2007, 36, 375-398.	2.5	26
4	An improvement on the transient response of tracking for the sampled-data system based on an improved PD-type iterative learning control. Journal of the Franklin Institute, 2014, 351, 1130-1150.	3.4	25
5	An improved bidimensional empirical mode decomposition: A mean approach for fast decomposition. Signal Processing, 2014, 98, 344-358.	3.7	17
6	A generalised optimal linear quadratic tracker with universal applications â€“ part 1: continuous-time systems. International Journal of Systems Science, 2017, 48, 376-396.	5.5	17
7	Continuous to discrete model conversion for the system with a singular system matrix based on matrix sign function. Applied Mathematical Modelling, 2011, 35, 3893-3904.	4.2	12
8	Design of Delay-Dependent Exponential Estimator for Tâ€“S Fuzzy Neural Networks with Mixed Time-Varying Interval Delays Using Hybrid Taguchi-Genetic Algorithm. Neural Processing Letters, 2012, 36, 49-67.	3.2	11
9	Efficient decentralized iterative learning tracker for unknown sampled-data interconnected large-scale state-delay system with closed-loop decoupling property. ISA Transactions, 2012, 51, 81-94.	5.7	10
10	A generalised optimal linear quadratic tracker with universal applications. Part 2: discrete-time systems. International Journal of Systems Science, 2017, 48, 397-416.	5.5	10
11	Low-order self-tuner for fault-tolerant control of a class of unknown nonlinear stochastic sampled-data systems. Applied Mathematical Modelling, 2009, 33, 706-723.	4.2	9
12	Iterative learning-based decentralized adaptive tracker for large-scale systems: A digital redesign approach. ISA Transactions, 2011, 50, 344-356.	5.7	9
13	A low-order active fault-tolerant state space self-tuner for the unknown sampled-data nonlinear singular system using OKID and modified ARMAX model-based system identification. Applied Mathematical Modelling, 2013, 37, 1242-1274.	4.2	8
14	Design of Fuzzy and Linear Active Disturbance Rejection Control for Insulin Infusion in Type 1 Diabetic Patients. International Journal of Fuzzy Systems, 2017, 19, 1966-1977.	4.0	7
15	A case study on the universal compensation-improvement mechanism: A robust PID filter-shaped optimal PI tracker for systems with/without disturbances. Journal of the Franklin Institute, 2018, 355, 3583-3618.	3.4	6
16	Adaptive Chattering-Free Sliding Mode Control of Chaotic Systems with Unknown Input Nonlinearity via Smooth Hyperbolic Tangent Function. Mathematical Problems in Engineering, 2019, 2019, 1-9.	1.1	6
17	An Efficient Robust Servo Design for Non-Minimum Phase Discrete-Time Systems with Unknown Matched/Mismatched Input Disturbances. Automation Control and Intelligent Systems, 2017, 5, 14.	0.2	6
18	Modeling of decentralized linear observer and tracker for a class of unknown interconnected large-scale sampled-data nonlinear systems with closed-loop decoupling property. Computers and Mathematics With Applications, 2010, 60, 541-562.	2.7	5

#	Article	IF	Citations
19	Digital redesign of the decentralised adaptive tracker for linear large-scale systems. International Journal of Systems Science, 2010, 41, 173-187.	5.5	5
20	A new PI optimal linear quadratic state-estimate tracker for continuous-time non-square non-minimum phase systems. International Journal of Systems Science, 2017, 48, 1438-1459.	5.5	5
21	Constrained minâ€“max optimization via the improved constraint-activated differential evolution with escape vectors. Expert Systems With Applications, 2016, 46, 336-345.	7.6	4
22	Novel observer/controller identification method-based minimal realisations in block observable/controllable canonical forms and compensation improvement. International Journal of Systems Science, 2017, 48, 1522-1536.	5.5	4
23	Digital redesign of analog smith predictor for systems with long input time delays. Journal of the Franklin Institute, 2017, 354, 5797-5812.	3.4	4
24	Digital Controller Design for Analog Systems Represented by Multiple Inputâ€“Output Time-Delay Transfer Function Matrices with Long Time Delays. Circuits, Systems, and Signal Processing, 2012, 31, 1653-1676.	2.0	3
25	Modeling and tracker for unknown nonlinear stochastic delay systems with positive input constraints. Applied Mathematical Modelling, 2016, 40, 10447-10479.	4.2	3
26	Design of Robust Trackers and Unknown Nonlinear Perturbation Estimators for a Class of Nonlinear Systems: HTRDNA Algorithm for Tracker Optimization. Mathematics, 2019, 7, 1141.	2.2	3
27	Application of the observer/Kalman filter identification method to unknown time-delay disturbed systems and the associated optimal digital tracker design. International Journal of Systems Science, 2019, 50, 2935-2961.	5.5	3
28	Effective zero-norm minimization algorithms for noisy compressed sensing. Journal of the Franklin Institute, 2020, 357, 7159-7187.	3.4	3
29	Adaptive H-infinity SMC-based Model Reference Tracker for Uncertain Nonlinear Systems with Input Nonlinearity. International Journal of Control, Automation and Systems, 2021, 19, 1560-1569.	2.7	3
30	Fast largeâ€scale image enlargement method with a novel evaluation approach: benchmark functionâ€based peak signalâ€toâ€noise ratio. IET Image Processing, 2015, 9, 358-368.	2.5	2
31	A novel on-line OCID method and its application to input-constrained active fault-tolerant tracker design for unknown nonlinear systems. International Journal of Systems Science, 2019, 50, 2632-2662.	5.5	2
32	A modified functional observer-based EID estimator for unknown sampled-data singular systems. International Journal of Systems Science, 2019, 50, 1976-2001.	5.5	2
33	Hybrid H-infinity synchronization for uncertain continuous chaotic systems based on digital redesign approach. Measurement and Control, 0, , 002029402110211.	1.8	2
34	Linear quadratic Nash game-based tracker for multiparameter singularly perturbed sampled-data systems: digital redesign approach. International Journal of General Systems, 2007, 36, 643-672.	2.5	1
35	A new PI-based optimal linear quadratic state-estimate tracker for discrete-time non-square non-minimum phase systems. International Journal of Systems Science, 2018, 49, 1856-1877.	5.5	1
36	A Modified Functional Observer-Based EID Estimator for Unknown Continuous-Time Singular Systems. Applied Sciences (Switzerland), 2020, 10, 2316.	2.5	0