Koji Tsumura

List of Publications by Year
in descending order

54 papers	882 citations	933447 10 h-index	713466 21 g-index
55 all docs	55 docs citations	55 times ranked	548 citing authors

#	Article	IF	Citations
1	Establishment of diagnostic criteria for upper urinary tract urothelial carcinoma based on genome-wide DNA methylation analysis. Epigenetics, 2020, 15, 1289-1301.	2.7	9
2	Glocal Traction Control for In-wheel-motor Electric Vehicles - A Passivity Approach -. IFAC-PapersOnLine, 2020, 53, 14079-14084.	0.9	0
3	Establishment of permutation for cancer risk estimation in the urothelium based on genome-wide DNA methylation analysis. Carcinogenesis, 2019, 40, 1308-1319.	2.8	21
4	Interconnected Hierarchical Modelling and Passivity Based Motion Control of IWM Electric Vehicles. , 2019, , .		1
5	Distributed Control of Stochastic Manufacturing Processes Based on Consensus Algorithms. , 2019, , .		2
6	The Second Law of Controlled Linear Stochastic Thermodynamic Systems over a Noiseless Digital Channel. , 2018, , .		0
7	Glocal Control of Load Frequency for Electrical Power Networks with Multiple Shared Model Set. , 2018, , .		0
8	Design and Stability of Optimal Frequency Control in Power Networks: A Passivity-based Approach. , 2018, , .		11
9	Hierarchically decentralized control for in-wheel-motored electric vehicles with global and local objectives. , 2017, , .		6
10	Deterministic quantum annealing expectation-maximization algorithm. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 113404.	2.3	5
11	Decomposition of energy function and hierarchical diagnosis of power grid swing instabilities. Nonlinear Theory and Its Applications IEICE, 2016, 7, 523-547.	0.6	4
12	Relaxation of the EM algorithm via quantum annealing. , 2016, , .		0
13	Decomposition of energy function and hierarchical transient stability diagnosis for power networks. , 2015, , .		4
14	Glocal (global/local) control synthesis for hierarchical networked systems. , 2015, , .		24
15	Pathwise thermodynamic structure in population dynamics. Physical Review E, 2015, 91, 032120.	2.1	19
16	A characterization of energy transfer in swing instability of hierarchical power network based on mode decomposition. , 2014, , .		2
17	Stabilizability of LTI MIMO systems with uncertain parameters under communication constraints. , 2013, , .		0
18	Data Rate Limitations in Feedback Control over Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 680-690.	0.3	17

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19	Cooperative Adaptive Control of Heterogeneous Multi-agent Systems for Leader Tracking. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 536-544.	0.2	0
20	Transfer function representation of cyclic consensus systems. Automatica, 2011, 47, 1974-1982.	5.0	21
21	Performance Competition in Cooperative Capturing by Multi-Agent Systems. SICE Journal of Control Measurement and System Integration, 2011, 4, 221-229.	0.7	8
22	Global stabilization of quantum spin systems via discrete time feedback control. , 2010, , .		0
23	Accessibility analysis for controlled quantum systems under continuous quantum measurement. , 2010, , .		0
24	Adaptive quantized control for linear uncertain systems over channels subject to packet loss. , 2010, , .		6
25	Signal complexity in cyclic consensus systems. , 2010, , .		3
26	Local State Transition of Feedback Controlled Quantum Systems with Imperfect Detector Efficiency: Part I: Differential Geometric Analysis for Dynamical Systems with Matrix-Valued States. SICE Journal of Control Measurement and System Integration, 2010, 3, 409-416.	0.7	1
27	Local State Transition of Feedback Controlled Quantum Systems with Imperfect Detector Efficiency: Part II: Accessibility Analysis for Quantum Systems. SICE Journal of Control Measurement and System Integration, 2010, 3, 417-423.	0.7	1
28	Transfer functions of closed-loop systems in H<inf>2</inf> optimal control. , 2009, , .		0
29	Realization of transfer functions via degree decreasing interpolation circuits. , 2009, , .		0
30	Adaptive quantized control for nonlinear uncertain systems. Systems and Control Letters, 2009, 58, 625-632.	2.3	221
31	Adaptive quantized control for linear uncertain discrete-time systems. Automatica, 2009, 45, 692-700.	5.0	188
32	Tradeoffs between quantization and packet loss in networked control of linear systems. Automatica, 2009, 45, 2963-2970.	5.0	139
33	Optimal Quantization of Signals for System Identification. IEEE Transactions on Automatic Control, 2009, 54, 2909-2915.	5.7	18
34	Hierarchical structure and multi time-scale in large scale dynamical systems. , 2008, , .		1
35	Characterization of discrete-time H<inf>2</inf> control performance limitation based on poles and zeros. , 2008, , .		3
36	Multi-resolved dynamical system theory for large scale complex systems. , 2008, , .		12

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37	Global stabilization at arbitrary eigenstates of N-dimensional quantum spin systems via continuous feedback. , 2008, , .		11
38	Adaptive Control over Lossy Communication. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 592-599.	0.2	1
39	Performance Analysis of Control Systems under Limited Data Rates. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 396-404.	0.2	5
40	Stabilization of Discrete-time Linear Systems via Quantized Signals with Packet Losses. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 234-242.	0.2	0
41	Adaptive Control for Linear Uncertain Discrete-Time Systems with Quantization and Deadzone. Proceedings of the American Control Conference, 2007, , .	0.0	0
42	The coarsest logarithmic quantizers for stabilization of linear systems with packet losses. , 2007, , .		20
43	A lower bound of the necessary bit length of memory for approximation of discrete time systems. , 2007, , .		2
44	Global Stabilization of N-dimensional Quantum Spin Systems via Continuous Feedback. Proceedings of the American Control Conference, 2007, , .	0.0	12
45	Prediction Based Sliding Mode Control with Delay Variation and Data Loss of Feedback. Proceedings of the American Control Conference, 2007, , .	0.0	2
46	Indirect adaptive networked control with delay and data loss in communication. , 2007, , .		1
47	Feedback control of quantum entanglement in a two-spin system. Automatica, 2007, 43, 981-992.	5.0	70
48	Guaranteeing the Data Rate and Control Performance by Switching Control with Dwell Time. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 581-588.	0.2	0
49	Stabilization of Linear Systems by Bit-Memory Controllers under Constraints of Bit-Length. , 2006, , .		5
50	Optimal Quantizer for Mixed Probabilistic/Deterministic Parameter Estimation. , 2006, , .		3
51	Parametrization and Design of Congestion Controllers for TCP/AQM Network Systems. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 529-537.	0.2	0
52	Local Reachability and Local Observability of Controlled Quantum Dynamics. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 1078-1087.	0.2	2
53	Controlled Dynamics Model for Quantum Systems. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 229-238.	0.2	1
54	Analysis of Equilibrium Points of Quantum Controlled Dynamics. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 693-702.	0.2	0