Kenji Sawada

List of Publications by Year
in descending order

61 papers	175 citations	1937685 4 h-index	1474206 9 g-index
61 all docs	61 docs citations	61 times ranked	57 citing authors

#	Article	IF	Citations
1	Interpolated Cooperative Distributed Observers and an Online Update Method for Position Estimation of Vehicle Platoons. IEEJ Transactions on Electronics, Information and Systems, 2022, 142, 239-250.	0.2	0
2	Multi-Rate Switched Pinning Control for Velocity Control of Vehicle Platoons. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 1461-1469.	0.3	1
3	Asset Management Method of Industrial IoT Systems for Cyber-Security Countermeasures. Information (Switzerland), 2021, 12, 460.	2.9	4
4	On the multiple anomaly detection of a third-party monitoring system for secured control. , 2020, , .		3
5	An Analysis of the Worst-case Disturbance on Airplane Vertical Acceleration using the Generic Transport Model. Transactions of the Institute of Systems Control and Information Engineers, 2020, 33, 250-252.	0.1	0
6	Periodic Event-triggered Control for Extended Plants. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 236-242.	0.2	0
7	Switched Pinning Control for Merging and Splitting Maneuvers of Vehicle Platoons. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 657-667.	0.3	5
8	On The Energy-Based Auto-Verification and Modeling Guideline for Model Based Development. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 1064-1073.	0.2	0
9	On the Instant Iterative Learning MPC for Nonlinear Systems. , 2020, , .		1
10	Distributed Cooperative Partial-State Observer for Position Estimation of Vehicle Platoon. , 2020, , .		1
11	Whitelisting Cyber Attack Detection according to Estimated Operational States for CPS. , 2019, , .		1
12	The Energy-Based Auto-Verification Focused on Hierarchical Model Structure for Model Based Development. , 2019, , .		0
13	A Relationship between the Communication Protocol and Exploration Efficiency on Maze Exploration via Distributed Collaborative Control System. Transactions of the Institute of Systems Control and Information Engineers, 2019, 32, 101-112.	0.1	0
14	Model Verification and Exhaustive Testing for Whitelist Function of Industrial Control System. , 2019, , .		0
15	Self-Triggered Optimal Control Based on Path Search Algorithm. SICE Journal of Control Measurement and System Integration, 2019, 12, 85-93.	0.7	4
16	Overlapped Grouping Optimization for Wind-Photovoltaic-Battery Hybrid System by Graph Enumeration. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 786-795.	0.2	0
17	On the Worst Disturbance of Airplane Longitudinal Motion using the Generic Transport Model. Transactions of the Institute of Systems Control and Information Engineers, 2019, 32, 309-317.	0.1	1
18	Multi-physics Model Verification Based on the Law of Energy Conservation. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 1293-1303.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Invariant set analysis for SISO discrete–time polynomial systems with dynamic quantizers. International Journal of Robust and Nonlinear Control, 2018, 28, 5495-5508.	3.7	3
20	Collaborative Model-Based Fallback Control for Secured Networked Control Systems. , 2018, , .		4
21	On Experimental validation of Whitelist Auto-Generation Method for Secured Programmable Logic Controllers. , 2018, , .		3
22	On Program Analysis via Kalman Decomposition for Non-stop Update of Embedded Systems. Transactions of the Society of Instrument and Control Engineers, 2018, 54, 227-237.	0.2	0
23	Model Based Anomaly Detection Focused on the Operating States*. , 2018, , .		0
24	On the Overlapping Decentralized Operation for Wind-Photovoltaic-Battery Hybrid System. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1554-1565.	0.2	0
25	Model Based Fallback Control for Networked Control System via Switched Lyapunov Function. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2086-2094.	0.3	15
26	On software update analysis via Kalman decomposition. , 2017, , .		0
27	Simulation Model-based Optimization of Brake Force Distribution. Transactions of the Institute of Systems Control and Information Engineers, 2017, 30, 197-208.	0.1	1
28	Experimental Validation of Encrypted Controller Implemented on Raspberry Pi. , 2016, , .		5
29	Sampled-data model following control for discrete-valued input systems via improved matrix uncertainty approach. , 2015, , .		1
30	Security Enhancement of Networked Control Systems with RSA Public-key Cryptosystem. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 655-660.	0.2	0
31	Sampled-data model following output feedback control for discrete-valued input systems. , 2015, , .		0
32	Model based fallback control for networked control system via switched Lyapunov function. , 2015, , .		9
33	Reduced-order dynamic quantizer synthesis for discrete-valued input systems. , 2015, , .		0
34	Invariant set analysis for discrete-time polynomial nonlinear feedback systems with dynamic quantizers. , 2015, , .		2
35	Security enhancements of networked control systems using RSA public-key cryptosystem. , 2015, , .		7
36	A fallback control study of networked control systems for cybersecurity. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
37	Output feedback controller synthesis for continuous-time discrete-valued input systems: Model following control case. , 2014, , .		1
38	Dispatching and conflict-free routing based on model predictive control in semiconductor fab. , 2014, , .		2
39	A smartphone centered system for home appliances. , 2014, , .		0
40	Model following output feedback controller synthesis for discrete-valued input systems. , 2014, , .		2
41	Model following control for continuous-time discrete-valued input systems. Artificial Life and Robotics, 2014, 19, 277-285.	1.2	4
42	On the adaptive observer for summational type state space equations. , 2014, , .		0
43	Model Following Output Feedback Control for Discrete-Valued Input Systems. SICE Journal of Control Measurement and System Integration, 2014, 7, 246-253.	0.7	5
44	Synthesis of continuous-time dynamic quantizers for LFT type quantized feedback systems. Artificial Life and Robotics, 2013, 18, 117-126.	1.2	8
45	Multistep scheduling algorithm for parallel and distributed processing with communication costs. , 2013, , .		1
46	Multistep Scheduling Algorithm for Parallel and Distributed Processing in Heterogeneous Systems with Communication Costs. Mathematical Problems in Engineering, 2013, 2013, 1-15.	1.1	2
47	Numerical Optimization Design of Dynamic Quantizer via Matrix Uncertainty Approach. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	4
48	Simultaneous optimization of dispatching and routing for OHT systems via hybrid system modeling. , 2013, , .		3
49	Continuous-time Robust Deadbeat Control of Automatic Guided Vehicle. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 246-254.	0.2	0
50	On the numerical optimization design of continuous-time quantizer: A matrix uncertainty approah. , 2013, , .		1
51	On numerical optimization design of continuous-time feedback type quantizer for networked control systems. , 2012, , .		1
52	Performance Improvement of Dynamic Quantizer with Reachability of Output. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 359-361.	0.2	0
53	An Integrated Design Method of Dynamic Quantizers with Communication Rate Constraint. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 126-133.	0.2	3
54	Synthesis of dynamic quantizers for quantized feedback systems within invariant set analysis framework. , 2011, , .		21

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55	Modeling and Calibration of Automatic Guided Vehicle. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 412-419.	0.2	1
56	Implementation test model of torque control for automatic guided vehicle. , 2010, , .		0
57	Dynamic Quantizer Synthesis Based on Invariant Set Analysis for SISO Systems with Discrete-Valued Input. Transactions of the Institute of Systems Control and Information Engineers, 2010, 23, 249-256.	0.1	18
58	Optimal Quantizing Width Design of Dynamic Quantizers Based on the Communication Rate Constraints and Its Performance Analysis. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 327-335.	0.2	4
59	A multi-sector analysis for dynamic quantizer synthesis. , 2010, , .		0
60	Optimal quantization interval design of dynamic quantizers which satisfy the communication rate constraints. , 2010, , .		14
61	An analysis of expansion and reduction speeds of traffic jams on graph exploration. Artificial Life and Robotics, 0, , 1.	1.2	2