Kazuhiro Yubai

List of Publications by Year
in descending order

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87	198	1684188 5	1474206 9
papers	citations	h-index	g-index

87	87	87	79
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iterative Design of the Reduced-Order Weight and Controller for the H_{infty} Loop-Shaping Method Under Open-Loop Magnitude Constraints for SISO Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 3854-3863.	7.9	20
2	Correlation-based Multivariable Controller Parameter Tuning by Using One-shot Experimental Data. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 391-399.	0.2	11
3	Design of a PID controller based on H<inf>∞</inf> loop shaping method using frequency responses. , 2013, , .		10
4	<scp>Dataâ€Ðriven</scp> Controller Tuning with <scp>Closedâ€Loop</scp> Response Estimation. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1397-1406.	1.4	9
5	Suppression of Harmonic Current for IPMSM using Generalized Repetitive Control. IEEJ Journal of Industry Applications, 2014, 3, 214-220.	1.1	8
6	A direct design from input/output data of the youla parameter for compensating plant perturbation on GIMC structure. , 2009, , .		7
7	Experimental Validation of Contact Force Control of Quadrotor Based on Rotor Angular Acceleration Control. , 2019, , .		7
8	Direct design from input/output data of a faultâ€tolerant control system based on GIMC structure. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2010, 171, 53-62.	0.4	6
9	Multivariable controller design evaluating closed-loop interaction by iterative LMI optimization using frequency response data. , 2015, , .		5
10	Fixed-order SISO controller design for H<inf>âˆž</inf> loop shaping method using frequency responses. , 2015, , .		5
11	Data-driven tuning of state feedback gains with stability constraint using experimental data. , 2016, , .		5
12	Design of force control system using tendonâ€driven mechanism including linear springs and ultrasonic motor. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2018, 205, 36-45.	0.4	5
13	Design of Adaptive Controller using Object Position for Bilateral Control System with Communication Delay. IEEJ Journal of Industry Applications, 2020, 9, 149-158.	1.1	5
14	Design of Master's Position Controller for Bilateral Control System with Time Delay. IEEJ Transactions on Industry Applications, 2015, 135, 268-275.	0.2	5
15	Fast Estimation of Environment's Stiffness for Bilateral Control Systems with Communication Delay. IEEJ Journal of Industry Applications, 2016, 5, 422-428.	1.1	5
16	Joint Synthesis of Controller and Fault Detector and Its Application to Motor Drive Control System. Transactions of the Society of Instrument and Control Engineers, 2001, 37, 1140-1146.	0.2	5
17	Compensation of Performance Degradation Caused by Fault Based on GIMC Structure. IEEJ Transactions on Industry Applications, 2007, 127, 866-874.	0.2	4
18	Contact Force Control of Quadrotor using Rotor Angular Velocity. IEEJ Transactions on Industry Applications, 2020, 140, 662-672.	0.2	4

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19	Stabilization of Rotary Inverted Pendulum by Gain-scheduling of Weight and H_∞ Loop Shaping Controller. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
20	Inverse Kinematics and Redundant Control Best-suited for Reconfigurable Robot. , 2007, , .		3
21	Implementation of direct parameters tuning method for multivariable controller using a couple of closed-loop I/O data. , 2009, , .		3
22	Correlation-based direct tuning of 2DOF controller by least squares. , 2010, , .		3
23	Design of track-following controller satisfying robust performance condition on Nyquist diagram. , 2011, , .		3
24	Data-driven controller tuning for sensitivity minimization. , 2016, , .		3
25	Estimation of Closed-Loop Response Using Input and Output Data. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 396-397.	0.2	3
26	Multivariable fixed-structural controller design for H<inf>âˆž</inf> loop shaping method by iterative LMI optimization using frequency response data. , 2016, , .		3
27	Multivariable Controller Design Achieving Diagonal Dominance Using Frequency Response Data. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 650-658.	0.2	3
28	Correlation-Based Tuning of Multivariable Controllers by Least-Squares Using Input/Output Data. IEEJ Transactions on Industry Applications, 2010, 130, 881-889.	0.2	3
29	Multivariable controller tuning for suppression of closed-loop interaction using frequency response dataset. International Journal of Advanced Mechatronic Systems, 2016, 7, 71.	0.2	3
30	Bilateral Control of Propeller-Driven System influenced by Ground Effect. IEEJ Transactions on Industry Applications, 2018, 138, 574-581.	0.2	3
31	Load torque control of an electromagnetic motor with a reduction gear and motor/loadâ€side encoders using a spring model including a dead zone. Electrical Engineering in Japan (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		3
32	Gain-scheduling Control of Rotary Inverted Pendulum by Weight Optimization and H.INF. Loop Shaping Procedure. IEEJ Transactions on Electronics, Information and Systems, 2006, 126, 1504-1513.	0.2	2
33	Compensation of performance degradation caused by fault based on GIMC structure: Application to a redundant sensor fault of flexible arm. Electrical Engineering in Japan (English Translation of Denki) Tj ETQq1 1 0.784314 rgBT /Overlock		2
34	Design of suboptimal weight using frequency responses guaranteeing performance level of controller for H<inf>∞</inf> loop shaping method. , 2014, , .		2
35	Data-driven <i>H</i><SUB align="right">∞ controller tuning for sensitivity minimisation. International Journal of Advanced Mechatronic Systems, 2017, 7, 337.	0.2	2
36	A Direct Design from Input/Output Data of Fault-Tolerant Control System Based on GIMC Structure. IEEJ Transactions on Industry Applications, 2008, 128, 758-766.	0.2	2

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37	Trajectory Control of DD Manipulator Using Scheduled H_∞ Control. IEEJ Transactions on Electronics, Information and Systems, 1998, 118, 118-124.	0.2	2
38	Direct design of switching control system by VRFT -application to vertical-type one-link arm-. , 2007, , .		1
39	A Direct Design of 2DOF Controller Based on FCbT and an Application to Closed-Loop Identification. IEEJ Transactions on Industry Applications, 2008, 128, 775-784.	0.2	1
40	A direct tuning from input/output data of the Youla parameter in consideration of some deviated plants. , 2013, , .		1
41	Proposal of FCbT Considering Closedâ€Loop Stability at Each Parameter Update. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 190, 69-78.	0.4	1
42	Fully Parameterized Youla Parameter Design Method in GIMC Structure Using Frequency Responses. , 2018, , .		1
43	Design of adaptive controller on task coordinate system for bilateral control system with communication delay. , 2018, , .		1
44	Torque control of a series elastic actuator using an ultrasonic motor with angularâ€velocity saturation. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2021, 214, e23297.	0.4	1
45	Load Torque Control of an Electromagnetic Motor with a Reduction Gear and Motor/Load-side Encoders Using a Spring Model including a Dead Zone. IEEJ Transactions on Industry Applications, 2021, 141, 700-708.	0.2	1
46	Fictitious Correlation-based Tuning Integrating the Data-Based Stability Test at Each Parameter Update. Lecture Notes in Electrical Engineering, 2011, , 511-518.	0.4	1
47	Data-driven Controller Tuning for Non-minimum Phase Plants with Stability Constraints. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 1802-1808.	0.2	1
48	Data-Driven Controller Tuning Based on Unfalsified Control for Sensitivity Minimization. IEEJ Transactions on Electronics, Information and Systems, 2017, 137, 1364-1372.	0.2	1
49	Realization of Cooperative Motions by a Function-based Decentralized Control System for Reconfigurable Robots. IEEJ Transactions on Industry Applications, 2009, 129, 995-1003.	0.2	1
50	A Direct Correlation-based Multivariable Controller Tuning by Least Squares. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 541-543.	0.2	1
51	Stability Test for Multivariable NCbT Using Input/Output Data. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 773-780.	0.2	1
52	Saving and Loading of Writing Motion in Three-Dimensional Work Spaces with Robustness against Changes in Paper Position. IEEJ Transactions on Industry Applications, 2014, 134, 308-316.	0.2	1
53	Direct design method of force controller based on input/output data. , 2016, , .		1
54	Design of Force Control System Using Tendon-driven Mechanism Including Linear Springs and Ultrasonic Motor. IEEJ Transactions on Industry Applications, 2018, 138, 298-305.	0.2	1

#	Article	IF	Citations
55	Design of a Gain-scheduled Rotor Thrust Controller Using Airspeed and Rotor Angular Velocity. , 2020, , .		1
56	Design of a Contact-force Controller Including Airframe's Velocity and Acceleration Feedback Controllers for One-degree-of-freedom Propeller-Driven Systems. IEEJ Transactions on Industry Applications, 2022, 142, 76-85.	0.2	1
57	Zonotopic Kalman Observer-based Sensor Fault Estimation for Discrete-Time Takagi-Sugeno Fuzzy Systems. , 2022, , .		1
58	Design of a contactâ€force controller including airframe's velocity and acceleration feedback controllers for oneâ€degreeâ€ofâ€freedom propellerâ€driven systems. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2022, 215, .	0.4	1
59	Design of reduced-order weight for H_∞ loop shaping method of vertical-type one-link arm - application to gain-scheduling control. , 2007, , .		0
60	Direct design of switching control system by SVR-based VRFT -Application to vetrical-type one-link arm-. , 2008, , .		0
61	Reduced-order weight design for H<inf>∞</inf> loop shaping method under open-loop magnitude constraints. , 2008, , .		0
62	Tuning of controller parameters by FCbT with stability constraints for non-minimum phase plants. , 2013, , .		0
63	Data-Driven Controller Tuning for Nonminimum Phase Plants with Stability Constraints. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2016, 197, 44-52.	0.4	0
64	Design of Suboptimal Weight Using Frequency Responses Guaranteeing Performance Level of Controller forHâˆžLoop Shaping Method. Electrical Engineering in Japan (English Translation of Denki) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		0
65	Design of an adaptive controller in a workspace for a bilateral control system with a time delay. , 2016, , .		0
66	Contact force control of tilt-rotor helicopter in 2-dimensional space. , 2018, , .		0
67	Analysis of Force/Stiffness Control of Variable Stiffness Tendon Driven Arms. , 2018, , .		0
68	Controller Design of Indirect Force Control System with Velocity-Saturating Closed Loop Ultrasonic Motor Velocity Control System in Inner Loop. , 2018, , .		0
69	Frequency-Responses-Based Design of Fully-Parameterized Youla Parameter Achieving Nominal Performance. , 2018, , .		0
70	A Study on Design Method of the Switching System for Force Control. , 2018, , .		0
71	Low-order multivariable weighting function design for H<inf>âˆž</inf> loop shaping method based on Î½-gap. , 2018, , .		0
72	Contact Force Control of Quadrotor Based on Rotor Angular Acceleration Control. , 2018, , .		0

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73	A Fundamental Study on Frequency-Responses-Based Fractional Order PID Controller Tuning. , 2018, , .		0
74	Numerical Validation of 3-DOF Controller Based Loop Shaping for 2-Inertia System with Motor/Load-Side Encoders. , 2018, , .		0
75	Fully parameterized fixedâ€order controller design for H_{â^ž} loop shaping method using frequency responsesâ€”extension to MIMO systems. Electrical Engineering in Japan (English) Tj ETQq1 1 0.784314 rgBT /Overlock		0
76	Torque Control of Two- Inertia System Using Ultrasonic Motor with Angular Velocity Saturation. , 2019, , .		0
77	Development of dataâ€based controller synthesis by convex optimization. Electronics and Communications in Japan, 2019, 102, 27-31.	0.5	0
78	Design of Adaptive Controller for Bilateral Control Systems Including a Propeller-Driven System. , 2020, , .		0
79	Output Complementary Sensitivity Shaping for MIMO Systems Without Multiple Experiments. , 2018, , .		0
80	Frequency-Responses-Based Design of Fixed-Order Youla Parameter. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1469-1477.	0.2	0
81	Development of Data-Based Controller Synthesis by Convex Optimization. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 272-275.	0.2	0
82	Proposal of NCbT Guaranteeing Closed-Loop Stability and Stability Margins. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 460-468.	0.2	0
83	Torque Control of a Series Elastic Actuator Using an Ultrasonic Motor with Angular-Velocity Saturation. IEEJ Transactions on Industry Applications, 2020, 140, 378-386.	0.2	0
84	Numerical Optimization Approach for Robust Performance Controller Using Frequency Responses. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 1360-1370.	0.2	0
85	Performance Evaluation of a Gain-scheduled Propeller Thrust Controller Using Wind Velocity and Rotor Angular Velocity Under Fluctuating Wind. , 2022, , .		0
86	Design of Feedforward Controller Using Airframe's Velocity for Contact Force Control of Propeller Driven System. , 2022, , .		0
87	Estimation of Ankle Torque in Passive Dorsiflexion and Plantar Flexion Using Time-Varying Elastic Coefficient. IEEJ Transactions on Industry Applications, 2022, 142, 232-240.	0.2	0