

Kazuhiro Yubai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Performance Evaluation of a Gain-scheduled Propeller Thrust Controller Using Wind Velocity and Rotor Angular Velocity Under Fluctuating Wind. , 2022, , .		0
3	Design of Feedforward Controller Using Airframe's Velocity for Contact Force Control of Propeller Driven System. , 2022, , .		0
4	Zonotopic Kalman Observer-based Sensor Fault Estimation for Discrete-Time Takagi-Sugeno Fuzzy Systems. , 2022, , .		1
5	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
6	Design of a contact force controller including airframe's velocity and acceleration feedback controllers for one-degree-of-freedom propeller-driven systems. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2022, 215, .	0.4	1
7	Torque control of a series elastic actuator using an ultrasonic motor with angular velocity saturation. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2021, 214, e23297.	0.4	1
8	Estimation of Closed-Loop Response Using Input and Output Data. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 396-397.	0.2	3
9	<scp>Data-Driven</scp> Controller Tuning with <scp>Closed-Loop</scp> Response Estimation. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1397-1406.	1.4	9
10	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
11	Load torque control of an electromagnetic motor with a reduction gear and motor/load-side encoders using a spring model including a dead zone. Electrical Engineering in Japan (English) Tj ETQq1 1 0.784314ngBT /Overlock 10CT		
12	Numerical Optimization Approach for Robust Performance Controller Using Frequency Responses. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 1360-1370.	0.2	0
13	Design of Adaptive Controller for Bilateral Control Systems Including a Propeller-Driven System. , 2020, , .		0
14	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
15	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
16	Contact Force Control of Quadrotor using Rotor Angular Velocity. IEEJ Transactions on Industry Applications, 2020, 140, 662-672.	0.2	4
17	Design of a Gain-scheduled Rotor Thrust Controller Using Airspeed and Rotor Angular Velocity. , 2020, , .		1
18	Experimental Validation of Contact Force Control of Quadrotor Based on Rotor Angular Acceleration Control. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	Torque Control of Two- Inertia System Using Ultrasonic Motor with Angular Velocity Saturation. , 2019, , .		0
20	Development of data-based controller synthesis by convex optimization. Electronics and Communications in Japan, 2019, 102, 27-31.	0.5	0
21	Development of Data-Based Controller Synthesis by Convex Optimization. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 272-275.	0.2	0
22	Proposal of NCbT Guaranteeing Closed-Loop Stability and Stability Margins. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 460-468.	0.2	0
23	Contact force control of tilt-rotor helicopter in 2-dimensional space. , 2018, , .		0
24	Analysis of Force/Stiffness Control of Variable Stiffness Tendon Driven Arms. , 2018, , .		0
25	Controller Design of Indirect Force Control System with Velocity-Saturating Closed Loop Ultrasonic Motor Velocity Control System in Inner Loop. , 2018, , .		0
26	Frequency-Responses-Based Design of Fully-Parameterized Youla Parameter Achieving Nominal Performance. , 2018, , .		0
27	A Study on Design Method of the Switching System for Force Control. , 2018, , .		0
28	Fully Parameterized Youla Parameter Design Method in GIMC Structure Using Frequency Responses. , 2018, , .		1
29	Low-order multivariable weighting function design for H^∞ loop shaping method based on $\frac{1}{2}$ -gap. , 2018, , .		0
30	Contact Force Control of Quadrotor Based on Rotor Angular Acceleration Control. , 2018, , .		0
31	A Fundamental Study on Frequency-Responses-Based Fractional Order PID Controller Tuning. , 2018, , .		0
32	Numerical Validation of 3-DOF Controller Based Loop Shaping for 2-Inertia System with Motor/Load-Side Encoders. , 2018, , .		0
33	Fully parameterized fixed-order controller design for H^∞ loop shaping method using frequency responses" extension to MIMO systems. Electrical Engineering in Japan (English) Tj ETQq1 1 0.7843 14 rgB0 /Overlo		0
34	Design of force control system using tendon-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
35	Design of adaptive controller on task coordinate system for bilateral control system with communication delay. , 2018, , .		1
36	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
37	Output Complementary Sensitivity Shaping for MIMO Systems Without Multiple Experiments. , 2018, , .		0
38	Bilateral Control of Propeller-Driven System influenced by Ground Effect. IEEJ Transactions on Industry Applications, 2018, 138, 574-581.	0.2	3
39	Frequency-Responses-Based Design of Fixed-Order Youla Parameter. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1469-1477.	0.2	0
40	Data-driven H_{∞} controller tuning for sensitivity minimisation. International Journal of Advanced Mechatronic Systems, 2017, 7, 337.	0.2	2
41	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
42	Data-driven tuning of state feedback gains with stability constraint using experimental data. , 2016, , .		5
43	Data-driven controller tuning for sensitivity minimization. , 2016, , .		3
44	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
45	Design of Suboptimal Weight Using Frequency Responses Guaranteeing Performance Level of Controller for H_{∞} Loop Shaping Method. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2016, 197, 44-52.		0
46	Design of an adaptive controller in a workspace for a bilateral control system with a time delay. , 2016, , .		0
47	Multivariable fixed-structural controller design for H_{∞} loop shaping method by iterative LMI optimization using frequency response data. , 2016, , .		3
48	Multivariable Controller Design Achieving Diagonal Dominance Using Frequency Response Data. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 650-658.	0.2	3
49	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
50	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
51	Direct design method of force controller based on input/output data. , 2016, , .		1
52	Multivariable controller design evaluating closed-loop interaction by iterative LMI optimization using frequency response data. , 2015, , .		5
53	Fixed-order SISO controller design for H_{∞} loop shaping method using frequency responses. , 2015, , .		5
54	Proposal of FCbT Considering Closed-Loop Stability at Each Parameter Update. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 190, 69-78.	0.4	1

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55	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
56	Suppression of Harmonic Current for IPMSM using Generalized Repetitive Control. IEEJ Journal of Industry Applications, 2014, 3, 214-220.	1.1	8
57	Design of suboptimal weight using frequency responses guaranteeing performance level of controller for H_{∞} loop shaping method. , 2014, , .		2
58	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
59	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
60	Design of a PID controller based on H_{∞} loop shaping method using frequency responses. , 2013, , .		10
61	Tuning of controller parameters by FCbT with stability constraints for non-minimum phase plants. , 2013, , .		0
62	A direct tuning from input/output data of the Youla parameter in consideration of some deviated plants. , 2013, , .		1
63	Design of track-following controller satisfying robust performance condition on Nyquist diagram. , 2011, , .		3
64	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
65	Stability Test for Multivariable NCbT Using Input/Output Data. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 773-780.	0.2	1
66	Direct design from input/output data of a fault-tolerant control system based on GMC structure. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2010, 171, 53-62.	0.4	6
67	Correlation-based direct tuning of 2DOF controller by least squares. , 2010, , .		3
68	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
69	A direct design from input/output data of the youla parameter for compensating plant perturbation on GMC structure. , 2009, , .		7
70	Implementation of direct parameters tuning method for multivariable controller using a couple of closed-loop I/O data. , 2009, , .		3
71	Compensation of performance degradation caused by fault based on GMC structure: Application to a redundant sensor fault of flexible arm. Electrical Engineering in Japan (English Translation of Denki Tj ETQq1 1 0.784314 rgB3 /Overlock		1
72	Iterative Design of the Reduced-Order Weight and Controller for the H_{∞} Loop-Shaping Method Under Open-Loop Magnitude Constraints for SISO Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 3854-3863.	7.9	20

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73	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
74	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
75	Direct design of switching control system by SVR-based VRFT -Application to vertical-type one-link arm-. , 2008, , .		0
76	Reduced-order weight design for H_{∞} loop shaping method under open-loop magnitude constraints. , 2008, , .		0
77	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
78	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
79	Design of reduced-order weight for H_{∞} loop shaping method of vertical-type one-link arm - application to gain-scheduling control. , 2007, , .		0
80	Direct design of switching control system by VRFT -application to vertical-type one-link arm-. , 2007, , .		1
81	Inverse Kinematics and Redundant Control Best-suited for Reconfigurable Robot. , 2007, , .		3
82	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
83	Compensation of Performance Degradation Caused by Fault Based on GIMC Structure. IEEJ Transactions on Industry Applications, 2007, 127, 866-874.	0.2	4
84	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
85	Gain-scheduling Control of Rotary Inverted Pendulum by Weight Optimization and H_{∞} Loop Shaping Procedure. IEEJ Transactions on Electronics, Information and Systems, 2006, 126, 1504-1513.	0.2	2
86	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
87	Trajectory Control of DD Manipulator Using Scheduled H_{∞} Control. IEEJ Transactions on Electronics, Information and Systems, 1998, 118, 118-124.	0.2	2