

# Shinji Hara

## List of Publications by Citations

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200  
papers

4,307  
citations

28  
h-index

62  
g-index

233  
ext. papers

5,296  
ext. citations

2.1  
avg. IF

5.42  
L-index

#	Paper	IF	Citations
200	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 659-668	5.9	853
199	Generalized KYP lemma: unified frequency domain inequalities with design applications. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 41-59	5.9	630
198	Interior-Point Methods for the Monotone Semidefinite Linear Complementarity Problem in Symmetric Matrices. <i>SIAM Journal on Optimization</i> , <b>1997</b> , 7, 86-125	2	294
197	Well-posedness of feedback systems: insights into exact robustness analysis and approximate computations. <i>IEEE Transactions on Automatic Control</i> , <b>1998</b> , 43, 619-630	5.9	157
196	. <i>IEEE Transactions on Automatic Control</i> , <b>1993</b> , 38, 1337-1358	5.9	141
195	Minimal order state observers for bilinear systems. <i>International Journal of Control</i> , <b>1976</b> , 24, 705-718	1.5	111
194	Dynamical system design from a control perspective: finite frequency positive-realness approach. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1337-1354	5.9	94
193	Best tracking and regulation performance under control energy constraint. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1320-1336	5.9	87
192	Time domain interpretations of frequency domain inequalities on (semi)finite ranges. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 681-691	2.4	83
191	Synthesis of repetitive control systems and its application <b>1985</b> ,		73
190	Nonlinear repetitive control with application to trajectory control of manipulators. <i>Journal of Field Robotics</i> , <b>1987</b> , 4, 631-652		70
189	Feedback linearization for pneumatic actuator systems with static friction. <i>Control Engineering Practice</i> , <b>1997</b> , 5, 1385-1394	3.9	69
188	Properties of sensitivity and complementary sensitivity functions in single-input single-output digital control systems. <i>International Journal of Control</i> , <b>1988</b> , 48, 2429-2439	1.5	68
187	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 1044-1052	5.9	62
186	Feedback control of quantum entanglement in a two-spin system. <i>Automatica</i> , <b>2007</b> , 43, 981-992	5.7	53
185	Driving Force Distribution and Control for EV With Four In-Wheel Motors: A Case Study of Acceleration on Split-Friction Surfaces. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 3380-3388	8.9	51
184	Existence criteria of periodic oscillations in cyclic gene regulatory networks. <i>Automatica</i> , <b>2011</b> , 47, 1203-1209	3.7	46

183	H <sub>∞</sub> control problem with j <sub>ω</sub> axis zeros. <i>Automatica</i> , <b>1992</b> , 28, 55-70	5.7	43
182	LTI Systems with Generalized Frequency Variables: A Unified Framework for Homogeneous Multi-agent Dynamical Systems. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2009</b> , 2, 299-306	0.3	40
181	Cooperative control of multi-agent dynamical systems in target-enclosing operations using cyclic pursuit strategy. <i>International Journal of Control</i> , <b>2010</b> , 83, 2040-2052	1.5	39
180	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 59-67	5.9	39
179	A hybrid state-space approach to sampled-data feedback control. <i>Linear Algebra and Its Applications</i> , <b>1994</b> , 205-206, 675-712	0.9	37
178	Global optimization for H <sub>2</sub> /spl infin// control with constant diagonal scaling. <i>IEEE Transactions on Automatic Control</i> , <b>1998</b> , 43, 191-203	5.9	36
177	Stability of repetitive control systems <b>1985</b> ,		36
176	Simultaneous parametric uncertainty modeling and robust control synthesis by LFT scaling. <i>Automatica</i> , <b>2000</b> , 36, 1457-1467	5.7	33
175	H <sub>2</sub> regulation performance limitations for SIMO linear time-invariant feedback control systems. <i>Automatica</i> , <b>2008</b> , 44, 659-670	5.7	31
174	Suboptimal quantum-error-correcting procedure based on semidefinite programming. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	30
173	Eigenvector-based intergroup connection of low rank for hierarchical multi-agent dynamical systems. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 354-361	2.4	28
172	Optimal tracking performance: preview control and exponential signals. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1647-1653	5.9	28
171	Properties of complementary sensitivity function in SISO digital control systems. <i>International Journal of Control</i> , <b>1989</b> , 50, 1283-1295	1.5	28
170	Inner-outer factorization for strictly proper functions with j <sub>ω</sub> axis zeros. <i>Systems and Control Letters</i> , <b>1991</b> , 16, 179-185	2.4	27
169	Biochemical oscillations in delayed negative cyclic feedback: Existence and profiles. <i>Automatica</i> , <b>2013</b> , 49, 2581-2590	5.7	26
168	Characterization of a complementary sensitivity property in feedback control: An information theoretic approach. <i>Automatica</i> , <b>2009</b> , 45, 504-509	5.7	26
167	Stability Analysis of Systems With Generalized Frequency Variables. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 313-326	5.9	25
166	Constraints on sensitivity characteristics in linear multivariable discrete-time control systems. <i>Linear Algebra and Its Applications</i> , <b>1989</b> , 122-124, 889-919	0.9	25

165	Stability tests and stabilization for piecewise linear systems based on poles and zeros of subsystems. <i>Automatica</i> , <b>2006</b> , 42, 1685-1695	5.7	23
164	Torque Distribution-Based Range Extension Control System for Longitudinal Motion of Electric Vehicles by LTI Modeling With Generalized Frequency Variable. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 1-1	5.5	21
163	Backstepping observer design for parabolic PDEs with measurement of weighted spatial averages. <i>Automatica</i> , <b>2015</b> , 53, 179-187	5.7	21
162	Consensus in hierarchical multi-agent dynamical systems with low-rank interconnections: Analysis of stability and convergence rates <b>2009</b> ,		21
161	Achievable sensitivity bounds for MIMO control systems via an information theoretic approach. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 111-118	2.4	20
160	Internal and external stability and robust stability condition for a class of infinite-dimensional systems. <i>Automatica</i> , <b>1992</b> , 28, 81-93	5.7	19
159	control problem with boundary constraints. <i>Systems and Control Letters</i> , <b>1989</b> , 13, 93-99	2.4	19
158	Parametrization of stabilizing controllers for multivariable servo systems with two degrees of freedom. <i>International Journal of Control</i> , <b>1987</b> , 45, 779-790	1.5	19
157	Robust stability analysis of gene/protein regulatory networks with cyclic activation/repression interconnections. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 373-382	2.4	16
156	A subband coding approach to control under limited data rates and message losses. <i>Automatica</i> , <b>2008</b> , 44, 1141-1148	5.7	16
155	State covariance assignment problem with measurement noise: a unified approach based on a symmetric matrix equation. <i>Linear Algebra and Its Applications</i> , <b>1994</b> , 203-204, 579-605	0.9	16
154	H Robust servo problem with H $\infty$ norm constraint. <i>International Journal of Control</i> , <b>1997</b> , 66, 803-823	1.5	15
153	A class of systems with the same observer. <i>IEEE Transactions on Automatic Control</i> , <b>1976</b> , 21, 572-576	5.9	15
152	A parameter space approach to fixed-order robust controller synthesis by quantifier elimination. <i>International Journal of Control</i> , <b>2006</b> , 79, 1321-1330	1.5	14
151	Properties of zeros in digital control systems with computational time delay. <i>International Journal of Control</i> , <b>1989</b> , 49, 493-511	1.5	14
150	Effectiveness and limitation of circle criterion for LTI robust control systems with control input nonlinearities of sector type. <i>International Journal of Robust and Nonlinear Control</i> , <b>2005</b> , 15, 873-901	3.6	13
149	. <i>IEEE Transactions on Automatic Control</i> , <b>1989</b> , 34, 632-635	5.9	13
148	On cancellation in optimal controllers. <i>Systems and Control Letters</i> , <b>1989</b> , 13, 205-210	2.4	13

147	Slip control for IWM vehicles based on hierarchical LQR. <i>Control Engineering Practice</i> , <b>2019</b> , 93, 104179	3.9	12
146	D-stability and robust stability conditions for LTI systems with generalized frequency variables <b>2010</b> ,		12
145	On Computing the Induced Norm of Sampled Data Systems <b>1990</b> ,		12
144	Stability of Multivariable Repetitive Control Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1986</b> , 22, 1256-1261	0.1	12
143	Intercellular delay regulates the collective period of repressively coupled gene regulatory oscillator networks. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 211-216	5.9	11
142	Best Achievable Tracking Performance in Sampled-Data Systems via LTI Controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2467-2479	5.9	11
141	Hierarchical Decentralized Stabilization for Networked Dynamical Systems by LQR Selective Pole Shift. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 5778-5783		10
140	Coordinated Spatial Pattern Formation in Biomolecular Communication Networks. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2015</b> , 1, 111-121	2.3	10
139	Sum of roots with positive real parts <b>2005</b> ,		10
138	Reduced-Order Proper $H_{\infty}$ Controllers for Descriptor Systems: Existence Conditions and LMI-Based Design Algorithms. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1253-1258	5.9	9
137	Characterization of Easily Controllable Plants Based on the Finite Frequency Phase/Gain Property: A Magic Number $\frac{1}{4} + 2j$ in $H_{\infty}$ Loop Shaping Design <b>2007</b> ,		9
136	An algebraic approach to hierarchical LQR synthesis for large-scale dynamical systems <b>2013</b> ,		8
135	Glocal (global/local) control synthesis for hierarchical networked systems <b>2015</b> ,		8
134	Hierarchical network synthesis for output consensus by eigenvector-based interlayer connections <b>2011</b> ,		8
133	Backstepping control for parabolic PDEs with in-domain actuation <b>2012</b> ,		8
132	Multi-resolved dynamical system theory for large scale complex systems <b>2008</b> ,		8
131	Hierarchical Decentralized Controller Synthesis for Heterogeneous Multi-Agent Dynamical Systems by LQR. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2015</b> , 8, 295-302	0.3	7
130	Graphical and analytic criteria for the existence of protein level oscillations in cyclic gene regulatory networks <b>2009</b> ,		7

129	Relating $H_2$ and $H_\infty$ -norm bounds for sampled-data systems. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 858-863	5.9	7
128	Solving and visualizing nonlinear parametric constraints in control based on quantifier elimination. <i>Applicable Algebra in Engineering, Communications and Computing</i> , <b>2007</b> , 18, 497-512	0.6	7
127	The Best Achievable $H_2$ Tracking Performances for SIMO Feedback Control Systems. <i>Journal of Control Science and Engineering</i> , <b>2007</b> , 2007, 1-12	1.2	7
126	Some conditions which make the constantly scaled $H_\infty$ control synthesis problems convex. <i>International Journal of Robust and Nonlinear Control</i> , <b>2002</b> , 12, 21-39	3.6	7
125	A unified approach to LMI-based reduced order self-scheduling control synthesis. <i>Systems and Control Letters</i> , <b>1999</b> , 36, 75-86	2.4	7
124	Robust stability analysis for LTI systems with generalized frequency variables and its application to gene regulatory networks. <i>Automatica</i> , <b>2019</b> , 105, 96-106	5.7	6
123	Global motion control system of in-wheel-motor electric vehicles based on driving force distribution <b>2016</b> ,		6
122	Parametric polynomial spectral factorization using the sum of roots and its application to a control design problem. <i>Journal of Symbolic Computation</i> , <b>2009</b> , 44, 703-725	0.8	6
121	The collective oscillation period of inter-coupled Goodwin oscillators <b>2012</b> ,		6
120	Cyclic pursuit behavior for hierarchical multi-agent systems with low-rank interconnection <b>2008</b> ,		6
119	Sum of roots, polynomial spectral factorization, and control performance limitations <b>2007</b> ,		6
118	Parametric optimization in control using the sum of roots for parametric polynomial spectral factorization <b>2007</b> ,		6
117	A PARAMETER SPACE APPROACH FOR FIXED-ORDER ROBUST CONTROLLER SYNTHESIS BY SYMBOLIC COMPUTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 359-364		6
116	State covariance assignment for sampled-data feedback control systems. <i>International Journal of Control</i> , <b>1995</b> , 61, 719-737	1.5	6
115	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1939-1942	5.9	6
114	Observability for bilinear systems. <i>International Journal of Control</i> , <b>1977</b> , 26, 559-572	1.5	6
113	Performance Competition in Cooperative Capturing by Multi-Agent Systems. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2011</b> , 4, 221-229	0.3	6
112	Properties of Zeros of Sampled Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1987</b> , 23, 371-378	0.1	6

111	Collective Oscillation Period of Inter-Coupled Biological Negative Cyclic Feedback Oscillators. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 1392-1397	5.9	5
110	Oscillation pattern analysis for gene regulatory networks with negative cyclic feedback <b>2010</b> ,		5
109	Cooperative gain output feedback stabilization for multi-agent dynamical systems <b>2009</b> ,		5
108	Noise-induced spatial pattern formation in stochastic reaction-diffusion systems <b>2012</b> ,		5
107	Analysis and synthesis of the robust impulse-to-peak performance. <i>Automatica</i> , <b>1998</b> , 34, 1473-1477	5.7	5
106	Sensitivity analysis of networked control systems via an information theoretic approach <b>2008</b> ,		5
105	Finite Frequency Phase Property Versus Achievable Control Performance in H <sub>∞</sub> Loop Shaping Design <b>2006</b> ,		5
104	Relation between fundamental estimation limit and stability in linear quantum systems with imperfect measurement. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	5
103	Tracking Control and System Development for Laser-Driven Micro-Vehicles. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , <b>2006</b> , 49, 71-76	0.8	5
102	Parameter Space Design for H <sup>∞</sup> ; Control. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1991</b> , 27, 714-716	0.1	5
101	Robust Stabilization in Digital Control Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1992</b> , 28, 10-19	0.1	5
100	Stability analysis of tire force distribution for multi-actuator electric vehicles using generalized frequency variable <b>2016</b> ,		4
99	Turing instability in reaction-diffusion systems with a single diffuser: Characterization based on root locus <b>2013</b> ,		4
98	H <sub>2</sub> and H <sub>∞</sub> norm computations for LTI systems with generalized frequency variables <b>2010</b> ,		4
97	Eigenvector-based characterization for hierarchical multi-agent dynamical systems with low rank interconnection <b>2010</b> ,		4
96	Existence conditions for oscillations in cyclic gene regulatory networks with time delay <b>2010</b> ,		4
95	Time delay effects on oscillation profiles in cyclic gene regulatory networks: Harmonic balance approach <b>2011</b> ,		4
94	Sum-of-Squares Decomposition via Generalized KYP Lemma. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1025-1029	5.9	4

93	Output Regulation for Sampled-Data Feedback Systems: Internal Model Principle and H <sub>2</sub> Servo Controller Synthesis <b>2006</b> ,		4
92	NONLINEAR CONTROL ANALYSIS ON KINEMATICALLY ASYMMETRICALLY AFFINE CONTROL SYSTEMS WITH NONHOLONOMIC AFFINE CONSTRAINTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 157-162		4
91	On constrained H <sub>2</sub> optimization problem for SISO systems. <i>IEEE Transactions on Automatic Control</i> , <b>1986</b> , 31, 856-858	5.9	4
90	Reduction of rotational speed fluctuation in motors using the repetitive control.. <i>IEEJ Transactions on Industry Applications</i> , <b>1987</b> , 107, 29-34	0.2	4
89	H <sub>2</sub> -Feasibility for H <sub>∞</sub> Control Problem with Constant Diagonal Scaling. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1997</b> , 33, 155-162	0.1	4
88	<b>2016</b> ,		3
87	Decomposition of energy function and hierarchical diagnosis of power grid swing instabilities. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2016</b> , 7, 523-547	0.6	3
86	Hierarchically decentralized control for in-wheel-motored electric vehicles with global and local objectives <b>2017</b> ,		3
85	On quantum-classical equivalence for linear systems control problems and its application to quantum entanglement assignment <b>2011</b> ,		3
84	Symbolic optimization of algebraic functions <b>2008</b> ,		3
83	Stabilization of multi-agent dynamical systems for cyclic pursuit behavior <b>2008</b> ,		3
82	Guaranteed Accuracy Algorithm in H <sub>2</sub> Optimal Tracking Controller Synthesis. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2007</b> , 43, 102-109	0.1	3
81	Dissipativity-Based Stability Analysis of Networked Nonlinear Descriptor Systems and Its Application to Power Grids. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2019</b> , 12, 29-38 <sup>0.3</sup>		2
80	Range extension control system for electric vehicles by LTI modeling with generalized frequency variable <b>2014</b> ,		2
79	Comments and Corrections on Stability of Genetic Regulatory Networks With Time Delay [May 02 602-608]. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 2771-2774	3.9	2
78	Decomposition of energy function and hierarchical transient stability diagnosis for power networks <b>2015</b> ,		2
77	Adaptive Consensus for a Class of Uncertain Nonlinear Multi-Agent Dynamical Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 1219-1224		2
76	Output regulation for sampled-data feedback control systems: Internal model principle and H <sub>2</sub> servo controller synthesis (Invited) <b>2010</b> , 33, 335-346		2



75	An LMI approach to local optimization for constantly scaled H control problems. <i>International Journal of Control</i> , <b>1997</b> , 67, 233-250	1.5	2
74	Dynamical System Design from Control Perspective <b>2006</b> ,		2
73	A probabilistic approach to model set validation		2
72	Frequency-restricted norm bounds for interval systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>1994</b> , 4, 575-593	3.6	2
71	<b>1987</b> ,		2
70	Unknown input observability for discrete-time linear multivariable systems and its application. <i>International Journal of Control</i> , <b>1984</b> , 39, 1043-1050	1.5	2
69	Sum of Roots Characterization for H2 Control Performance Limitations. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2008</b> , 1, 58-65	0.3	2
68	Rank Properties of Inter-layer Incidence Matrix and Convergence Performance in Hierarchical Consensus. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2009</b> , 45, 476-483	0.1	2
67	A Synthesis for Robust Tracking Systems Based on $H^\infty$ Control. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1996</b> , 32, 502-509	0.1	2
66	The Analysis of Turing Instability in Reaction-diffusion Systems Using a Single Diffuser. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2013</b> , 49, 1164-1171	0.1	2
65	An Algebraic Approach to Hierarchical Optimal Control of Large-scale Dynamical Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2013</b> , 49, 1154-1163	0.1	2
64	Hierarchically Decentralized Control for Networked Dynamical Systems with Global and Local Objectives. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , <b>2018</b> , 179-191	0.2	1
63	New Characterization and Classification of Synchronization of Multiple Metronomes on a Cart via Describing Function Method. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 9450-9455	0.7	1
62	Entrainment Analysis in Goodwin-Type Nonlinear Oscillator Networks Driven by External Periodic Signals. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2014</b> , 7, 337-346	0.3	1
61	Efficient parameter identification for stochastic biochemical networks using a reduced-order realization <b>2013</b> ,		1
60	Backstepping observer using weighted spatial average for 1-dimensional parabolic distributed parameter systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 13326-13331		1
59	Periodic oscillations in cyclic repressor networks: Analytic existence criteria with biological insight <b>2010</b> ,		1
58	Performance analysis of decentralized cooperative driving under non-symmetric bidirectional information architecture <b>2010</b> ,		1

57	A Practical Loop Shaping Design Procedure with Classical Control Criteria and Its Application to Hard Disk Drives. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 2002-2007		1
56	Feedback control through networks with packet loss: mixed H <sub>2</sub> /H <sub>∞</sub> approach and application to a teleoperating system <b>2007</b> ,		1
55	A UNIFICATION OF ANALYTICAL EXPRESSIONS FOR CONTROL PERFORMANCE LIMITATIONS VIA RECIPROCAL TRANSFORM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 620-625		1
54	Development of a MATLAB toolbox for parametric robust control - new algorithms and functions - <b>2006</b> ,		1
53	Tracking performance with finite input energy <b>2001</b> , 41-55		1
52	H <sub>∞</sub> suboptimal controller design of robust tracking systems <b>1992</b> , 162-169		1
51	Sensitivity improvement by a stable controller in SISO digital control systems. <i>Systems and Control Letters</i> , <b>1989</b> , 12, 123-128	2.4	1
50	Nonlinear Control Analysis of Nonholonomic Kinematic Systems with Affine Constraints. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2010</b> , 46, 759-764	0.1	1
49	Properties of Common Zeros between Pulse Transfer Function and Modified Pulse Transfer Function. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1988</b> , 24, 92-94	0.1	1
48	Ripple Phenomena in Digital Repetitive Control. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1991</b> , 27, 915-921	0.1	1
47	Local Reachability and Local Observability of Controlled Quantum Dynamics. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2004</b> , 40, 1078-1087	0.1	1
46	Controlled Dynamics Model for Quantum Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2004</b> , 40, 229-238	0.1	1
45	Computer Aided Control System Analysis and Design Based on the Concept of Object-Orientation. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1988</b> , 24, 506-513	0.1	1
44	Robust Stabilizability for Some Classes of Plant Uncertainty. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1988</b> , 24, 569-574	0.1	1
43	Hierarchical Modeling and Local Stability Analysis for Repressilators Coupled by Quorum Sensing. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2014</b> , 7, 133-140	0.3	1
42	A Unified Approach to Decentralized Cooperative Control for Large-Scale Networked Dynamical Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2010</b> , 61-72	0.5	1
41	Local State Transition of Feedback Controlled Quantum Systems with Imperfect Detector Efficiency: Part I: Differential Geometric Analysis for Dynamical Systems with Matrix-Valued States. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2010</b> , 3, 409-416	0.3	1
40	Characterization of Finite Frequency Properties Using Quadratic Differential Forms. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2010</b> , 3, 466-475	0.3	1

39	Local State Transition of Feedback Controlled Quantum Systems with Imperfect Detector Efficiency: Part II: Accessibility Analysis for Quantum Systems. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2010</b> , 3, 417-423	0.3	1
38	Plant/controller design integration for H2 control based on symbolic-numeric hybrid optimization. <i>Communications in Information and Systems</i> , <b>2011</b> , 11, 281-306	0.8	1
37	Stability Region for Linear Systems with Generalized Frequency Variables. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2012</b> , 48, 479-487	0.1	1
36	Compatibility of Observer and Zero Sensitivity Observer. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1976</b> , 12, 491-496	0.1	1
35	A Class of Stabilizing Controllers for Robust Servo Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1985</b> , 21, 644-646	0.1	1
34	Interconnected Hierarchical Modelling and Passivity Based Motion Control of IWM Electric Vehicles <b>2019</b> ,		1
33	Generalizing the KYP Lemma to Multiple Frequency Intervals. <i>SIAM Journal on Control and Optimization</i> , <b>2014</b> , 52, 3618-3638	1.9	0
32	Modeling and Analysis of Nonholonomic Dynamic Systems with Affine Constraints. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2011</b> , 24, 9-15	0.1	0
31	Best Achievable Performance of Cooperative Kalman Filters for Decoupled Multi-agent Systems under Environmental Disturbances. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 196-201	0.7	0
30	Robust Stability Analysis for Cyclic Gene Regulatory Networks. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2012</b> , 48, 318-325	0.1	
29	Oscillation Profile Analysis for Cyclic Gene Regulatory Networks. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2012</b> , 48, 241-247	0.1	
28	Distinguished Lecturers Program [Member Activities]. <i>IEEE Control Systems</i> , <b>2010</b> , 30, 24-25	2.9	
27	Computational Complexity Reduction in Scaled H <sub>2</sub> Synthesis**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Associate Editor I. Petersen under the direction of Editor R.F. Curtain.. <i>Automatica</i> , <b>1997</b> , 33, 1325-1332	5.7	
26	Sum of Roots Characterization for Parametric State Feedback H <sub>2</sub> Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 1342-1347		
25	Characterization of a complementary sensitivity property in feedback control: An information theoretic approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 5185-5190		
24	Characterization of Easily Controllable Continuous-time Plants Based on Finite Frequency Phase/Gain Property. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2007</b> , 43, 855-862	0.1	
23	QUANTIZED FEEDBACK CONTROL FOR SAMPLED-DATA SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 213-218		
22	AN EXACT STABILITY TEST FOR PLANAR AND MULTI-MODAL PIECEWISE LINEAR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 466-471		

21	Global optimization for robust control synthesis based on the Matrix Product Eigenvalue Problem. <i>International Journal of Robust and Nonlinear Control</i> , <b>2001</b> , 11, 857-878	3.6
20	BEST TRACKING AND REGULATION PERFORMANCE UNDER CONTROL EFFORT CONSTRAINT: TWO-PARAMETER CONTROLLER CASE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 497-502	
19	FINITE FREQUENCY CHARACTERIZATION OF EASILY CONTROLLABLE MECHANICAL SYSTEMS UNDER CONTROL EFFORT CONSTRAINT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 509-514	
18	Robust control system design for sampled-data feedback systems <b>1992</b> , 56-63	
17	Design of type-1 servo systems possessing prescribed stability margins using a generalized Riccati-type equation. <i>International Journal of Control</i> , <b>1987</b> , 46, 1525-1545	1.5
16	Glocal Traction Control for In-wheel-motor Electric Vehicles - A Passivity Approach -. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14079-14084	0.7
15	When Is a Linear Continuous-time System Easy or Hard to Control in Practice?. <i>Lecture Notes in Control and Information Sciences</i> , <b>2008</b> , 111-124	0.5
14	Instability margin analysis for parametrized LTI systems with application to repressilator. <i>Automatica</i> , <b>2022</b> , 136, 110047	5.7
13	Analysis of Equilibrium Points of Quantum Controlled Dynamics. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2004</b> , 40, 693-702	0.1
12	Considerations on the Transient Characteristics of Adaptive Identification System. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1987</b> , 23, 116-122	0.1
11	Robust Stabilizability for Perturbations of First-Order Lag Type. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1988</b> , 24, 1246-1252	0.1
10	Constraints on Sensitivity Characteristics in Multi-Input Multi-Output Discrete-Time Control Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1988</b> , 24, 1165-1172	0.1
9	Complementary Sensitivity Characteristics in Digital Control Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1990</b> , 26, 1101-1103	0.1
8	On the $H^\infty$ Norm Minimization of the Complementary Sensitivity Function of Discrete-Time State Feedback Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1990</b> , 26, 1098-1100	0.1
7	Sampled-Data Balanced Truncation and Its Application to Low Order Digital Controller Design. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1997</b> , 33, 384-391	0.1
6	Cyclic Pursuit Based Formation Control for Cooperative Target-enclosing. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2009</b> , 45, 160-167	0.1
5	Characterization of Finite Frequency Properties for n-Dimensional Behaviors Using Quadratic Differential Forms. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2014</b> , 7, 112-121	0.3
4	State Feedback Law with Specified Stability Margin. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1985</b> , 21, 1345-1347	0.1

- 3 A Design Method of Type One Servo System Regarding Stability Margin. *Transactions of the Society of Instrument and Control Engineers*, **1986**, 22, 1142-1148 0.1
- 2 The Class of All Robust Servo Compensators in Two-Degree-of-Freedom Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1986**, 22, 1007-1013 0.1
- 1 Robust Stabilizability of Repetitive Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1987**, 23, 920-927 0.1