Shinji Hara

List of Publications by Year in Descending Order

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	Instability margin analysis for parametrized LTI systems with application to repressilator. *Automatica*, **2022**, 136, 110047	5.7	
199	Glocal Traction Control for In-wheel-motor Electric Vehicles - A Passivity Approach -. *IFAC-PapersOnLine*, **2020**, 53, 14079-14084	0.7	
198	Dissipativity-Based Stability Analysis of Networked Nonlinear Descriptor Systems and Its Application to Power Grids. *SICE Journal of Control Measurement and System Integration*, **2019**, 12, 29-38	0.3	2
197	Robust stability analysis for LTI systems with generalized frequency variables and its application to gene regulatory networks. *Automatica*, **2019**, 105, 96-106	5.7	6
196	Slip control for IWM vehicles based on hierarchical LQR. *Control Engineering Practice*, **2019**, 93, 104179	3.9	12
195	Interconnected Hierarchical Modelling and Passivity Based Motion Control of IWM Electric Vehicles **2019**,		1
194	Hierarchically Decentralized Control for Networked Dynamical Systems with Global and Local Objectives. *Lecture Notes in Control and Information Sciences - Proceedings*, **2018**, 179-191	0.2	1
193	Best Achievable Performance of Cooperative Kalman Filters for Decoupled Multi-agent Systems under Environmental Disturbances. *IFAC-PapersOnLine*, **2018**, 51, 196-201	0.7	0
192	Driving Force Distribution and Control for EV With Four In-Wheel Motors: A Case Study of Acceleration on Split-Friction Surfaces. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 3380-3388	8.9	51
191	Hierarchically decentralized control for in-wheel-motored electric vehicles with global and local objectives **2017**,		3
190	New Characterization and Classification of Synchronization of Multiple Metronomes on a Cart via Describing Function Method. *IFAC-PapersOnLine*, **2017**, 50, 9450-9455	0.7	1
189	**2016**,		3
188	Decomposition of energy function and hierarchical diagnosis of power grid swing instabilities. *Nonlinear Theory and Its Applications IEICE*, **2016**, 7, 523-547	0.6	3
187	Stability analysis of tire force distribution for multi-actuator electric vehicles using generalized frequency variable **2016**,		4
186	Glocal motion control system of in-wheel-motor electric vehicles based on driving force distribution **2016**,		6
185	Collective Oscillation Period of Inter-Coupled Biological Negative Cyclic Feedback Oscillators. *IEEE Transactions on Automatic Control*, **2015**, 60, 1392-1397	5.9	5
184	Torque Distribution-Based Range Extension Control System for Longitudinal Motion of Electric Vehicles by LTI Modeling With Generalized Frequency Variable. *IEEE/ASME Transactions on Mechatronics*, **2015**, 1-1	5.5	21

183	Hierarchical Decentralized Controller Synthesis for Heterogeneous Multi-Agent Dynamical Systems by LQR. *SICE Journal of Control Measurement and System Integration*, **2015**, 8, 295-302	0.3	7
182	Coordinated Spatial Pattern Formation in Biomolecular Communication Networks. *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2015**, 1, 111-121	2.3	10
181	Decomposition of energy function and hierarchical transient stability diagnosis for power networks **2015**,		2
180	Glocal (global/local) control synthesis for hierarchical networked systems **2015**,		8
179	Backstepping observer design for parabolic PDEs with measurement of weighted spatial averages. *Automatica*, **2015**, 53, 179-187	5.7	21
178	Stability Analysis of Systems With Generalized Frequency Variables. *IEEE Transactions on Automatic Control*, **2014**, 59, 313-326	5.9	25
177	Range extension control system for electric vehicles by LTI modeling with generalized frequency variable **2014**,		2
176	Comments and Corrections on Stability of Genetic Regulatory Networks With Time Delay[May 02 602-608]. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 2771-2774	3.9	2
175	Hierarchical Decentralized Stabilization for Networked Dynamical Systems by LQR Selective Pole Shift. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 5778-5783		10
174	Entrainment Analysis in Goodwin-Type Nonlinear Oscillator Networks Driven by External Periodic Signals. *SICE Journal of Control Measurement and System Integration*, **2014**, 7, 337-346	0.3	1
173	Generalizing the KYP Lemma to Multiple Frequency Intervals. *SIAM Journal on Control and Optimization*, **2014**, 52, 3618-3638	1.9	0
172	Intercellular delay regulates the collective period of repressively coupled gene regulatory oscillator networks. *IEEE Transactions on Automatic Control*, **2014**, 59, 211-216	5.9	11
171	Hierarchical Modeling and Local Stability Analysis for Repressilators Coupled by Quorum Sensing. *SICE Journal of Control Measurement and System Integration*, **2014**, 7, 133-140	0.3	1
170	Characterization of Finite Frequency Properties for n-Dimensional Behaviors Using Quadratic Differential Forms. *SICE Journal of Control Measurement and System Integration*, **2014**, 7, 112-121	0.3	
169	Biochemical oscillations in delayed negative cyclic feedback: Existence and profiles. *Automatica*, **2013**, 49, 2581-2590	5.7	26
168	An algebraic approach to hierarchical LQR synthesis for large-scale dynamical systems **2013**,		8
167	Turing instability in reaction-diffusion systems with a single diffuser: Characterization based on root locus **2013**,		4
166	Efficient parameter identification for stochastic biochemical networks using a reduced-order realization **2013**,		1

165	The Analysis of Turing Instability in Reaction-diffusion Systems Using a Single Diffuser. *Transactions of the Society of Instrument and Control Engineers*, **2013**, 49, 1164-1171	0.1	2
164	An Algebraic Approach to Hierarchical Optimal Control of Large-scale Dynamical Systems. *Transactions of the Society of Instrument and Control Engineers*, **2013**, 49, 1154-1163	0.1	2
163	Eigenvector-based intergroup connection of low rank for hierarchical multi-agent dynamical systems. *Systems and Control Letters*, **2012**, 61, 354-361	2.4	28
162	Robust Stability Analysis for Cyclic Gene Regulatory Networks. *Transactions of the Society of Instrument and Control Engineers*, **2012**, 48, 318-325	0.1	
161	Oscillation Profile Analysis for Cyclic Gene Regulatory Networks. *Transactions of the Society of Instrument and Control Engineers*, **2012**, 48, 241-247	0.1	
160	Noise-induced spatial pattern formation in stochastic reaction-diffusion systems **2012**,		5
159	The collective oscillation period of inter-coupled Goodwin oscillators **2012**,		6
158	Backstepping control for parabolic PDEs with in-domain actuation **2012**,		8
157	Stability Region for Linear Systems with Generalized Frequency Variables. *Transactions of the Society of Instrument and Control Engineers*, **2012**, 48, 479-487	0.1	1
156	Backstepping observer using weighted spatial average for 1-dimensional parabolic distributed parameter systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 13326-13331		1
155	Adaptive Consensus for a Class of Uncertain Nonlinear Multi-Agent Dynamical Systems*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 1219-1224		2
154	Existence criteria of periodic oscillations in cyclic gene regulatory networks. *Automatica*, **2011**, 47, 1203-1209	3.7	46
153	Achievable sensitivity bounds for MIMO control systems via an information theoretic approach. *Systems and Control Letters*, **2011**, 60, 111-118	2.4	20
152	Robust stability analysis of gene–protein regulatory networks with cyclic activation–repression interconnections. *Systems and Control Letters*, **2011**, 60, 373-382	2.4	16
151	Time delay effects on oscillation profiles in cyclic gene regulatory networks: Harmonic balance approach **2011**,		4
150	On quantum-classical equivalence for linear systems control problems and its application to quantum entanglement assignment **2011**,		3
149	Hierarchical network synthesis for output consensus by eigenvector-based interlayer connections **2011**,		8
148	Performance Competition in Cooperative Capturing by Multi-Agent Systems. *SICE Journal of Control Measurement and System Integration*, **2011**, 4, 221-229	0.3	6

147	Plant/controller design integration for H2 control based on symbolic-numeric hybrid optimization. *Communications in Information and Systems*, **2011**, 11, 281-306	0.8	1
146	Modeling and Analysis of Nonholonomic Dynamic Systems with Affine Constraints. *Transactions of the Institute of Systems Control and Information Engineers*, **2011**, 24, 9-15	0.1	0
145	Oscillation pattern analysis for gene regulatory networks with negative cyclic feedback **2010**,		5
144	Periodic oscillations in cyclic repressor networks: Analytic existence criteria with biological insight **2010**,		1
143	H2 and H∞ norm computations for LTI systems with generalized frequency variables **2010**,		4
142	Eigenvector-based characterization for hierarchical multi-agent dynamical systems with low rank interconnection **2010**,		4
141	Existence conditions for oscillations in cyclic gene regulatory networks with time delay **2010**,		4
140	Output regulation for sampled-data feedback control systems: Internal model principle and H 8 servo controller synthesis (Invited) **2010**, 33, 335-346		2
139	Distinguished Lecturers Program [Member Activities]. *IEEE Control Systems*, **2010**, 30, 24-25	2.9	
138	D-stability and robust stability conditions for LTI systems with generalized frequency variables **2010**,		12
137	Performance analysis of decentralized cooperative driving under non-symmetric bidirectional information architecture **2010**,		1
136	Cooperative control of multi-agent dynamical systems in target-enclosing operations using cyclic pursuit strategy. *International Journal of Control*, **2010**, 83, 2040-2052	1.5	39
135	Nonlinear Control Analysis of Nonholonomic Kinematic Systems with Affine Constraints. *Transactions of the Society of Instrument and Control Engineers*, **2010**, 46, 759-764	0.1	1
134	A Unified Approach to Decentralized Cooperative Control for Large-Scale Networked Dynamical Systems. *Lecture Notes in Control and Information Sciences*, **2010**, 61-72	0.5	1
133	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	0.3	1
132	Characterization of Finite Frequency Properties Using Quadratic Differential Forms. *SICE Journal of Control Measurement and System Integration*, **2010**, 3, 466-475	0.3	1
131	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	0.3	1
130	Graphical and analytic criteria for the existence of protein level oscillations in cyclic gene regulatory networks **2009**,		7

129	Cooperative gain output feedback stabilization for multi-agent dynamical systems **2009**,		5
128	Consensus in hierarchical multi-agent dynamical systems with low-rank interconnections: Analysis of stability and convergence rates **2009**,		21
127	Parametric polynomial spectral factorization using the sum of roots and its application to a control design problem. *Journal of Symbolic Computation*, **2009**, 44, 703-725	0.8	6
126	Characterization of a complementary sensitivity property in feedback control: An information theoretic approach. *Automatica*, **2009**, 45, 504-509	5.7	26
125	Sum-of-Squares Decomposition via Generalized KYP Lemma. *IEEE Transactions on Automatic Control* , **2009**, 54, 1025-1029	5.9	4
124	LTI Systems with Generalized Frequency Variables: A Unified Framework for Homogeneous Multi-agent Dynamical Systems. *SICE Journal of Control Measurement and System Integration*, **2009**, 2, 299-306	0.3	40
123	Rank Properties of Inter-layer Incidence Matrix and Convergence Performance in Hierarchical Consensus. *Transactions of the Society of Instrument and Control Engineers*, **2009**, 45, 476-483	0.1	2
122	Cyclic Pursuit Based Formation Control for Cooperative Target-enclosing. *Transactions of the Society of Instrument and Control Engineers*, **2009**, 45, 160-167	0.1	
121	Best Achievable Tracking Performance in Sampled-Data Systems via LTI Controllers. *IEEE Transactions on Automatic Control*, **2008**, 53, 2467-2479	5.9	11
120	Sensitivity analysis of networked control systems via an information theoretic approach **2008**,		5
119	Multi-resolved dynamical system theory for large scale complex systems **2008**,		8
118	Symbolic optimization of algebraic functions **2008**,		3
117	Stabilization of multi-agent dynamical systems for cyclic pursuit behavior **2008**,		3
116	Reduced-Order Proper H_infty Controllers for Descriptor Systems: Existence Conditions and LMI-Based Design Algorithms. *IEEE Transactions on Automatic Control*, **2008**, 53, 1253-1258	5.9	9
115	Cyclic pursuit behavior for hierarchical multi-agent systems with low-rank interconnection **2008**,		6
114	Sum of Roots Characterization for Parametric State Feedback H□Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 1342-1347		
113	A Practical Loop Shaping Design Procedure with Classical Control Criteria and Its Application to Hard Disk Drives. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 2002-2007		1
112	Characterization of a complementary sensitivity property in feedback control: An information theoretic approach. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 5185-5190		

111	A subband coding approach to control under limited data rates and message losses. *Automatica*, **2008**, 44, 1141-1148	5.7	16
110	H2 regulation performance limitations for SIMO linear time-invariant feedback control systems. *Automatica*, **2008**, 44, 659-670	5.7	31
109	When Is a Linear Continuous-time System Easy or Hard to Control in Practice?. *Lecture Notes in Control and Information Sciences*, **2008**, 111-124	0.5	
108	Sum of Roots Characterization for H2 Control Performance Limitations. *SICE Journal of Control Measurement and System Integration*, **2008**, 1, 58-65	0.3	2
107	Characterization of Easily Controllable Continuous-time Plants Based on Finite Frequency Phase/Gain Property. *Transactions of the Society of Instrument and Control Engineers*, **2007**, 43, 855-862	0.1	
106	Feedback control of quantum entanglement in a two-spin system. *Automatica*, **2007**, 43, 981-992	5.7	53
105	Solving and visualizing nonlinear parametric constraints in control based on quantifier elimination. *Applicable Algebra in Engineering, Communications and Computing*, **2007**, 18, 497-512	0.6	7
104	Sum of roots, polynomial spectral factorization, and control performance limitations **2007**,		6
103	Parametric optimization in control using the sum of roots for parametric polynomial spectral factorization **2007**,		6
102	The Best AchievableH2Tracking Performances for SIMO Feedback Control Systems. *Journal of Control Science and Engineering*, **2007**, 2007, 1-12	1.2	7
101	Relation between fundamental estimation limit and stability in linear quantum systems with imperfect measurement. *Physical Review A*, **2007**, 76,	2.6	5
100	Characterization of Easily Controllable Plants Based on the Finite Frequency Phase/Gain Property: A Magic Number □4 + 2 □2 in H□Loop Shaping Design **2007**,		9
99	Feedback control through networks with packet loss: mixed H2/H□approach and application to a teleoperating system **2007**,		1
98	A UNIFICATION OF ANALYTICAL EXPRESSIONS FOR CONTROL PERFORMANCE LIMITATIONS VIA RECIPROCAL TRANSFORM. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 620-625		1
97	Guaranteed Accuracy Algorithm in H2 Optimal Tracking Controller Synthesis. *Transactions of the Society of Instrument and Control Engineers*, **2007**, 43, 102-109	0.1	3
96	Output Regulation for Sampled-Data Feedback Systems: Internal Model Principle and H□Servo Controller Synthesis **2006**,		4
95	Finite Frequency Phase Property Versus Achievable Control Performance in H□Loop Shaping Design **2006**,		5
94	Dynamical System Design from Control Perspective **2006**,		2

93	A parameter space approach to fixed-order robust controller synthesis by quantifier elimination. *International Journal of Control*, **2006**, 79, 1321-1330	1.5	14
92	Development of a MATLAB toolbox for parametric robust control - new algorithms and functions - **2006**,		1
91	Stability tests and stabilization for piecewise linear systems based on poles and zeros of subsystems. *Automatica*, **2006**, 42, 1685-1695	5.7	23
90	Tracking Control and System Development for Laser-Driven Micro-Vehicles. *Transactions of the Japan Society for Aeronautical and Space Sciences*, **2006**, 49, 71-76	0.8	5
89	Suboptimal quantum-error-correcting procedure based on semidefinite programming. *Physical Review A*, **2005**, 71,	2.6	30
88	NONLINEAR CONTROL ANALYSIS ON KINEMATICALLY ASYMMETRICALLY AFFINE CONTROL SYSTEMS WITH NONHOLONOMIC AFFINE CONSTRAINTS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 157-162		4
87	QUANTIZED FEEDBACK CONTROL FOR SAMPLED-DATA SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 213-218		
86	AN EXACT STABILITY TEST FOR PLANAR AND MULTI-MODAL PIECEWISE LINEAR SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 466-471		
85	Time domain interpretations of frequency domain inequalities on (semi)finite ranges. *Systems and Control Letters*, **2005**, 54, 681-691	2.4	83
84	Effectiveness and limitation of circle criterion for LTI robust control systems with control input nonlinearities of sector type. *International Journal of Robust and Nonlinear Control*, **2005**, 15, 873-901	3.6	13
83	Generalized KYP lemma: unified frequency domain inequalities with design applications. *IEEE Transactions on Automatic Control*, **2005**, 50, 41-59	5.9	630
82	Sum of roots with positive real parts **2005**,		10
81	Local Reachability and Local Observability of Controlled Quantum Dynamics. *Transactions of the Society of Instrument and Control Engineers*, **2004**, 40, 1078-1087	0.1	1
80	Controlled Dynamics Model for Quantum Systems. *Transactions of the Society of Instrument and Control Engineers*, **2004**, 40, 229-238	0.1	1
79	Analysis of Equilibrium Points of Quantum Controlled Dynamics. *Transactions of the Society of Instrument and Control Engineers*, **2004**, 40, 693-702	0.1	
78	Dynamical system design from a control perspective: finite frequency positive-realness approach. *IEEE Transactions on Automatic Control*, **2003**, 48, 1337-1354	5.9	94
77	Best tracking and regulation performance under control energy constraint. *IEEE Transactions on Automatic Control*, **2003**, 48, 1320-1336	5.9	87
76	Some conditions which make the constantly scaled H□control synthesis problems convex. *International Journal of Robust and Nonlinear Control*, **2002**, 12, 21-39	3.6	7

75	BEST TRACKING AND REGULATION PERFORMANCE UNDER CONTROL EFFORT CONSTRAINT: TWO-PARAMETER CONTROLLER CASE. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 497-502		
74	FINITE FREQUENCY CHARACTERIZATION OF EASILY CONTROLLABLE MECHANICAL SYSTEMS UNDER CONTROL EFFORT CONSTRAINT. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 509-514		
73	A PARAMETER SPACE APPROACH FOR FIXED-ORDER ROBUST CONTROLLER SYNTHESIS BY SYMBOLIC COMPUTATION. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 359-364		6
72	Global optimization for robust control synthesis based on the Matrix Product Eigenvalue Problem. *International Journal of Robust and Nonlinear Control*, **2001**, 11, 857-878	3.6	
71	Optimal tracking performance: preview control and exponential signals. *IEEE Transactions on Automatic Control*, **2001**, 46, 1647-1653	5.9	28
70	Tracking performance with finite input energy **2001**, 41-55		1
69	Simultaneous parametric uncertainty modeling and robust control synthesis by LFT scaling. *Automatica*, **2000**, 36, 1457-1467	5.7	33
68	A unified approach to LMI-based reduced order self-scheduling control synthesis. *Systems and Control Letters*, **1999**, 36, 75-86	2.4	7
67	Analysis and synthesis of the robust impulse-to-peak performance. *Automatica*, **1998**, 34, 1473-1477	5.7	5
66	Global optimization for H/sub /spl infin// control with constant diagonal scaling. *IEEE Transactions on Automatic Control*, **1998**, 43, 191-203	5.9	36
65	Well-posedness of feedback systems: insights into exact robustness analysis and approximate computations. *IEEE Transactions on Automatic Control*, **1998**, 43, 619-630	5.9	157
64	An LMI approach to local optimization for constantly scaled H control problems. *International Journal of Control*, **1997**, 67, 233-250	1.5	2
63	Relating H/sub 2/ and H/sub /spl infin//-norm bounds for sampled-data systems. *IEEE Transactions on Automatic Control*, **1997**, 42, 858-863	5.9	7
62	H Robust servo problem with H□norm constraint. *International Journal of Control*, **1997**, 66, 803-823	1.5	15
61	Interior-Point Methods for the Monotone Semidefinite Linear Complementarity Problem in Symmetric Matrices. *SIAM Journal on Optimization*, **1997**, 7, 86-125	2	294
60	Feedback linearization for pneumatic actuator systems with static friction. *Control Engineering Practice*, **1997**, 5, 1385-1394	3.9	69
59	Computational Complexity Reduction in Scaled H□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.. *Automatica*, **1997**, 33, 1325-1332	5.7	
58	^|^isin;-Feasibility for H^|^infin; Control Problem with Constant Diagonal Scaling. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 155-162	0.1	4

57	Sampled-Data Balanced Truncation and Its Application to Low Order Digital Controller Design. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 384-391	0.1	
56	A Synthesis for Robust Tracking Systems Based onH^|^infin; Control. *Transactions of the Society of Instrument and Control Engineers*, **1996**, 32, 502-509	0.1	2
55	State covariance assignment for sampled-data feedback control systems. *International Journal of Control*, **1995**, 61, 719-737	1.5	6
54	. *IEEE Transactions on Automatic Control*, **1995**, 40, 1939-1942	5.9	6
53	State covariance assignment problem with measurement noise: a unified approach based on a symmetric matrix equation. *Linear Algebra and Its Applications*, **1994**, 203-204, 579-605	0.9	16
52	A hybrid state-space approach to sampled-data feedback control. *Linear Algebra and Its Applications* , **1994**, 205-206, 675-712	0.9	37
51	Frequency-restricted norm bounds for interval systems. *International Journal of Robust and Nonlinear Control*, **1994**, 4, 575-593	3.6	2
50	. *IEEE Transactions on Automatic Control*, **1993**, 38, 1337-1358	5.9	141
49	Robust control system design for sampled-data feedback systems **1992**, 56-63		
48	H□suboptimal controller design of robust tracking systems **1992**, 162-169		1
47	Internal and external stability and robust stability condition for a class of infinite-dimensional systems. *Automatica*, **1992**, 28, 81-93	5.7	19
46	H□control problem with j□axis zeros. *Automatica*, **1992**, 28, 55-70	5.7	43
45	Robust Stabilization in Digital Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1992**, 28, 10-19	0.1	5
44	Inner-outer factorization for strictly proper functions with j□axis zeros. *Systems and Control Letters*, **1991**, 16, 179-185	2.4	27
43	Parameter Space Design for H^|^infin; Control. *Transactions of the Society of Instrument and Control Engineers*, **1991**, 27, 714-716	0.1	5
42	Ripple Phenomena in Digital Repetitive Control. *Transactions of the Society of Instrument and Control Engineers*, **1991**, 27, 915-921	0.1	1
41	On Computing the Induced Norm of Sampled Data Systems **1990**,		12
40	Complementary Sensitivity Characteristics in Digital Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1990**, 26, 1101-1103	0.1	

39	On the H^|^infin; Norm Minimization of the Complementary Sensitivity Function of Discrete-Time State Feedback Systems. *Transactions of the Society of Instrument and Control Engineers*, **1990**, 26, 1098-1100	0.1	
38	Properties of zeros in digital control systems with computational time delay. *International Journal of Control*, **1989**, 49, 493-511	1.5	14
37	Properties of complementary sensitivity function in SISO digital control systems. *International Journal of Control*, **1989**, 50, 1283-1295	1.5	28
36	. *IEEE Transactions on Automatic Control*, **1989**, 34, 632-635	5.9	13
35	Constraints on sensitivity characteristics in linear multivariable discrete-time control systems. *Linear Algebra and Its Applications*, **1989**, 122-124, 889-919	0.9	25
34	Sensitivity improvement by a stable controller in SISO digital control systems. *Systems and Control Letters*, **1989**, 12, 123-128	2.4	1
33	control problem with boundary constraints. *Systems and Control Letters*, **1989**, 13, 93-99	2.4	19
32	On cancellation in optimal controllers. *Systems and Control Letters*, **1989**, 13, 205-210	2.4	13
31	Properties of sensitivity and complementary sensitivity functions in single-input single-output digital control systems. *International Journal of Control*, **1988**, 48, 2429-2439	1.5	68
30	. *IEEE Transactions on Automatic Control*, **1988**, 33, 1044-1052	5.9	62
29	. *IEEE Transactions on Automatic Control*, **1988**, 33, 659-668	5.9	853
28	. *IEEE Transactions on Automatic Control*, **1988**, 33, 59-67	5.9	39
27	Properties of Common Zeros between Pulse Transfer Function and Modified Pulse Transfer Function. *Transactions of the Society of Instrument and Control Engineers*, **1988**, 24, 92-94	0.1	1
26	Computer Aided Control System Analysis and Design Based on the Concept of Object-Orientation. *Transactions of the Society of Instrument and Control Engineers*, **1988**, 24, 506-513	0.1	1
25	Robust Stabilizability for Some Classes of Plant Uncertainty. *Transactions of the Society of Instrument and Control Engineers*, **1988**, 24, 569-574	0.1	1
24	Robust Stabilizability for Perturbations of First-Order Lag Type. *Transactions of the Society of Instrument and Control Engineers*, **1988**, 24, 1246-1252	0.1	
23	Constraints on Sensitivity Characteristics in Multi-Input Multi-Output Discrete-Time Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1988**, 24, 1165-1172	0.1	
22	Design of type-1 servo systems possessing prescribed stability margins using a generalized Riccati-type equation. *International Journal of Control*, **1987**, 46, 1525-1545	1.5	

21	Parametrization of stabilizing controllers for multivariable servo systems with two degrees of freedom. *International Journal of Control*, **1987**, 45, 779-790	1.5	19
20	**1987**,		2
19	Reduction of rotational speed fluctuation in motors using the repetitive control.. *IEEJ Transactions on Industry Applications*, **1987**, 107, 29-34	0.2	4
18	Nonlinear repetitive control with application to trajectory control of manipulators. *Journal of Field Robotics*, **1987**, 4, 631-652		70
17	Properties of Zeros of Sampled Systems. *Transactions of the Society of Instrument and Control Engineers*, **1987**, 23, 371-378	0.1	6
16	Considerations on the Transient Characteristics of Adaptive Identification System. *Transactions of the Society of Instrument and Control Engineers*, **1987**, 23, 116-122	0.1	
15	Robust Stabilizability of Repetitive Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1987**, 23, 920-927	0.1	
14	On constrainedH^{}optimization problem for SISO systems. *IEEE Transactions on Automatic Control*, **1986**, 31, 856-858	5.9	4
13	Stability of Multivariable Repetitive Control Systems. *Transactions of the Society of Instrument and Control Engineers*, **1986**, 22, 1256-1261	0.1	12
12	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	
11	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	
10	Synthesis of repetitive control systems and its application **1985**,		73
9	Stability of repetitive control systems **1985**,		36
8	State Feedback Law with Specified Stability Margin. *Transactions of the Society of Instrument and Control Engineers*, **1985**, 21, 1345-1347	0.1	
7	A Class of Stabilizing Controllers for Robust Servo Systems. *Transactions of the Society of Instrument and Control Engineers*, **1985**, 21, 644-646	0.1	1
6	Unknown input observability for discrete-time linear multivariable systems and its application. *International Journal of Control*, **1984**, 39, 1043-1050	1.5	2
5	Observability for bilinear systems. *International Journal of Control*, **1977**, 26, 559-572	1.5	6
4	A class of systems with the same observer. *IEEE Transactions on Automatic Control*, **1976**, 21, 572-576	5.9	15

3	Minimal order state observers for bilinear systems. *International Journal of Control*, **1976**, 24, 705-718	1.5	111
2	Compatibility of Observer and Zero Sensitivity Observer. *Transactions of the Society of Instrument and Control Engineers*, **1976**, 12, 491-496	0.1	1
1	A probabilistic approach to model set validation		2