Wook Hyun Kwon

List of Publications by Year
in descending order

138 papers	4,507 citations	201674 27 h-index	114465 63 g-index
141 all docs	141 docs citations	141 times ranked	1795 citing authors

#	Article	IF	Citations
1	Delay-dependent robust stabilization of uncertain state-delayed systems. International Journal of Control, 2001, 74, 1447-1455.	1.9	1,370
2	Maximum allowable delay bounds of networked control systems. Control Engineering Practice, 2003, 11, 1301-1313.	5.5	332
3	Memoryless H/sup âˇ/ controllers for state delayed systems. IEEE Transactions on Automatic Control, 1994, 39, 159-162.	5.7	229
4	A receding horizon Kalman FIR filter for discrete time-invariant systems. IEEE Transactions on Automatic Control, 1999, 44, 1787-1791.	5.7	183
5	A scheduling method for network-based control systems. IEEE Transactions on Control Systems Technology, 2002, 10, 318-330.	5.2	177
6	On Stability of Constrained Receding Horizon Control with Finite Terminal Weighting Matrix. Automatica, 1998, 34, 1607-1612.	5.0	162
7	Robust stabilization of uncertain input-delayed systems using reduction method. Automatica, 2001, 37, 307-312.	5.0	160
8	A receding horizon unbiased FIR filter for discrete-time state space models. Automatica, 2002, 38, 545-551.	5.0	155
9	Packet Error Rate Analysis of ZigBee Under WLAN and Bluetooth Interferences. IEEE Transactions on Wireless Communications, 2007, 6, 2825-2830.	9.2	149
10	FIR filters and recursive forms for discrete-time state-space models. Automatica, 1989, 25, 715-728.	5.0	103
11	Receding horizon tracking control as a predictive control and its stability properties. International Journal of Control, 1989, 50, 1807-1824.	1.9	90
12	Sufficient LMI Conditions for H_∞ Output Feedback Stabilization of Linear Discrete-Time Systems. IEEE Transactions on Automatic Control, 2006, 51, 675-680.	5.7	88
13	Bounds in algebraic Riccati and Lyapunov equations: a survey and some new results. International Journal of Control, 1996, 64, 377-389.	1.9	79
14	A receding horizon Kalman FIR filter for linear continuous-time systems. IEEE Transactions on Automatic Control, 1999, 44, 2115-2120.	5.7	64
15	An Enhanced CSMA-CA Algorithm for IEEE 802.15.4 LR-WPANs. IEEE Communications Letters, 2007, 11, 461-463.	4.1	59
16	A simple receding horizon control for state delayed systems and its stability criterion. Journal of Process Control, 2003, 13, 539-551.	3.3	50
17	${\cal H}_{\infty}$ Finite Memory Controls for Linear Discrete-Time State-Space Models. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 97-101.	2.2	47
18	DCA: Duty-Cycle Adaptation Algorithm for IEEE 802.15.4 Beacon-Enabled Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	43

#	Article	IF	Citations
19	Minimum Variance FIR Smoothers for Discrete-Time State Space Models. IEEE Signal Processing Letters, 2007, 14, 557-560.	3.6	43
20	Receding-horizon unbiased FIR filters for continuous-time state-space models without a priori initial state information. IEEE Transactions on Automatic Control, 2001, 46, 766-770.	5.7	41
21	Quasi-deadbeat minimax filters for deterministic state~space models. IEEE Transactions on Automatic Control, 2002, 47, 1904-1908.	5.7	39
22	Stabilizing receding horizon H/sub âˆž/ controls for linear continuous time-varying systems. IEEE Transactions on Automatic Control, 2001, 46, 1273-1279.	5.7	38
23	Recursive solution of generalized predictive control and its equivalence to receding horizon tracking control. Automatica, 1992, 28, 1235-1238.	5.0	36
24	On stabilizing receding horizon controls for linear continuous time-invariant systems. IEEE Transactions on Automatic Control, 2000, 45, 1329-1334.	5.7	32
25	Delay-dependent guaranteed cost control for uncertain state-delayed systems. , 2001, , .		32
26	DELAY-DEPENDENT ROBUST STABILIZATION OF UNCERTAIN DISCRETE-TIME STATE-DELAYED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 261-266.	0.4	31
27	Receding Horizon Controls for Input-Delayed Systems. IEEE Transactions on Automatic Control, 2008, 53, 1746-1752.	5.7	31
28	Performance improvement using time delays in multivariable controller design. International Journal of Control, 1990, 52, 1455-1473.	1.9	30
29	Short-time Fourier analysis via optimal harmonic FIR filters. IEEE Transactions on Signal Processing, 1997, 45, 1535-1542.	5.3	29
30	Estimation and detection of unknown inputs using optimal FIR filter. Automatica, 2000, 36, 1481-1488.	5.0	28
31	Robust one-step receding horizon control for constrained systems. International Journal of Robust and Nonlinear Control, 1999, 9, 381-395.	3.7	26
32	Geometric kinematics modeling of omni-directional autonomous mobile robot and its applications. , 0, , .		23
33	Receding Horizon Finite Memory Controls for Output Feedback Controls of State–Space Systems. IEEE Transactions on Automatic Control, 2004, 49, 1905-1915.	5.7	22
34	Fast algorithms for optimal FIR filter and smoother of discrete-time state-space models. Automatica, 1994, 30, 489-492.	5.0	21
35	A scheduling method for network-based control systems. , 1998, , .		21
36	$L_{2}-E$ FIR Smoothers for Deterministic Discrete-Time State–Space Signal Models. IEEE Transactions on Automatic Control, 2007, 52, 927-932.	5.7	20

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37	Intervalwise receding horizon H/sub âˇž/ tracking control for discrete linear periodic systems. IEEE Transactions on Automatic Control, 2000, 45, 747-752.	5.7	18
38	Stability and a scheduling method for network-based control systems. , 0, , .		17
39	Autopilot Design for Bank-to-Turn Missiles Using Receding Horizon Predictive Control Scheme. Journal of Guidance, Control, and Dynamics, 1997, 20, 1248-1254.	2.8	16
40	RECEDING HORIZON Hâˇž CONTROL FOR SYSTEMS WITH A STATE-DELAY. Asian Journal of Control, 2008, 8, 63-71.	3.0	16
41	Adaptive Channel State Routing for Home Network Systems Using Power Line Communications. IEEE Transactions on Consumer Electronics, 2007, 53, 1410-1418.	3.6	15
42	Elevator group control with accurate estimation of Hall call waiting times. , 0, , .		13
43	A new identification approach for FIR models. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2002, 49, 439-446.	2.2	12
44	ECAP: A Bursty Traffic Adaptation Algorithm for IEEE 802.15.4 Beacon-Enabled Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	11
45	Direct Width Control Systems Based on Width Prediction Models in Hot Strip Mill. ISIJ International, 2007, 47, 105-113.	1.4	11
46	A Note on Two-Filter Smoothing Formulas. IEEE Transactions on Automatic Control, 2008, 53, 849-854.	5.7	11
47	Delayed State Feedback Controller for the Stabilization of Ordinary Systems. , 1989, , .		10
48	Real-time distributed software-in-the-loop simulation for distributed control systems. , 0, , .		10
49	Minimum Variance FIR Smoothers for Continuous-Time State Space Signal Models. IEEE Signal Processing Letters, 2007, 14, 1024-1027.	3.6	10
50	Receding horizon control for linear discrete systems with jump parameters. , 0, , .		9
51	A delay-dependent robust stability criterion for uncertain time-delay systems. , 1998, , .		9
52	A nonlinear minimization approach to multiobjective and structured controls for discrete-time systems. International Journal of Robust and Nonlinear Control, 2004, 14, 1327-1343.	3.7	9
53	A Robust FIR Filter for Linear Discrete-Time Stateâ€"Space Signal Models With Uncertainties. IEEE Signal Processing Letters, 2007, 14, 553-556.	3.6	9
54	Genetic-based fuzzy control for half-car active suspension systems. International Journal of Systems Science, 1998, 29, 699-710.	5.5	8

#	ARTICLE	IF	CITATIONS
55	Virtual Channel Management for Densely Deployed IEEE 802.15.4 LR-WPANs. , 0, , .		8
56	Active Channel Reservation for Coexistence Mechanism (ACROS) for IEEE 802.15.4 and IEEE 802.11. IEICE Transactions on Communications, 2010, E93-B, 2082-2087.	0.7	8
57	Predicting execution time of relay ladder logic for programmable logic controllers. , 0, , .		7
58	On forbidden state problems in a general class of non-ordinary controlled Petri nets. , 0, , .		7
59	Receding horizon predictive control for nonlinear time-delay systems with and without input constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 239-244.	0.4	7
60	Comments on "Optimal solution of the two-stage Kalman estimator. IEEE Transactions on Automatic Control, 2002, 47, 198-199.	5.7	7
61	Allowable parameter variations and robustness recovery in LQG regulators. International Journal of Robust and Nonlinear Control, 1991, 1, 33-42.	3.7	6
62	Robust generalised predictive control with terminal output weightings. Journal of Process Control, 1996, 6, 137-144.	3.3	6
63	Design and implementation of home network control protocol on OSGi for home automation system. , 2005, , .		6
64	Delay-dependent robust H/sub âˇž/ control for uncertain systems with time-varying state-delay. , 0, , .		5
65	A Continuous-Time Recursive Fixed-Lag Smoother Converging in Finite Time. IEEE Transactions on Automatic Control, 2009, 54, 1613-1618.	5.7	5
66	Receding horizon control for state delayed systems with its stability. , 0, , .		4
67	Partition of GPC into a State Observer and a State Feedback Controller. , 1992, , .		4
68	RECEDING HORIZON FINITE MEMORY CONTROLS FOR OUTPUT FEEDBACK CONTROLS OF DISCRETE-TIME STATE SPACE SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 17-22.	0.4	4
69	LMS finite memory estimators for discrete-time state space models. , 2009, , .		4
70	Stability Guaranteed Generalized Predictive Controls and its Equivalence to Receding Horizon Tracking Control. , 1992, , .		4
71	FPGA-based implementation of Synchronous Petri Nets. , 0, , .		3
72	Robust receding-horizon control for linear systems with model uncertainties. , 0, , .		3

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73	A synthesis of state avoidance policies for a class of controlled Petri nets with weighted arcs. , 0, , .		3
74	Scheduling algorithm for programmable logic controllers with remote I/Os. , 0, , .		3
75	Delay-Dependent Robust Stabilization of Uncertain Time-Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 619-624.	0.4	3
76	Timed Petri net based approach for elevator group controls. , 0, , .		3
77	An architecture for a network based robot control system. , 0, , .		3
78	Improved concept for derivation of velocity profiles for elevator systems. , 0, , .		3
79	Reducing OS overhead for real-time industrial controllers with adjustable timer resolution. , 0, , .		3
80	Response Time Driven Scheduling for Programmable Logic Controllers with Network-Based I/O Systems. Real-Time Systems, 2003, 25, 67-91.	1.3	3
81	Spatial and Temporal Multi-Aggregation for State-Based Sensor Data in Wireless Sensor Networks. Telecommunication Systems, 2004, 26, 161-179.	2.5	3
82	Generalized predictive controls over state space. , 2007, , .		3
83	Best Linear Unbiased Fir Filters For Continuous–Time State Space Models. Asian Journal of Control, 2001, 3, 1-9.	3.0	3
84	Short-time harmonic analysis via the state-space optimal FIR filter. , 0, , .		2
85	Worst-case timing prediction of relay ladder logic by constraint analysis. , 0, , .		2
86	Genetic-based fuzzy control for automotive active suspensions. , 0, , .		2
87	Modern guidance laws via receding horizon control without the time-to-go. , 0, , .		2
88	Manoeuvre detection and target tracking using state-space optimal FIR filters. , 1999, , .		2
89	Linear quadratic regulators for time-delay systems with an extended cost. , 2001, , .		2
90	Implementation of virtual factory using MMS companion standard. , 0, , .		2

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91	NEW RECURSIVE LEAST SQUARE ALGORITHMS WITHOUT USING THE INITIAL INFORMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 137-141.	0.4	2
92	Fixed-lag Minimum Variance FIR Smoothers for Continuous-time Systems. , 2006, , .		2
93	Robust FIR Filters for Linear Continuous-Time State-Space Models With Uncertainties. IEEE Signal Processing Letters, 2008, 15, 621-624.	3.6	2
94	Finite memory generalized predictive controls for discrete-time state space models. , 2008, , .		2
95	A Best Lag Size of Minimum Variance FIR Smoothers. IEEE Signal Processing Letters, 2009, 16, 307-310.	3.6	2
96	Evaluation of the communication latency over real-time channel in HARTS. , 0, , .		1
97	Receding horizon FIR filter with estimated horizon initial state and its application to aircraft engine systems. , 0, , .		1
98	Best linear unbiased estimation filters with FIR structures for state space signal models. , 0, , .		1
99	A compiler design for IEC 1131-3 standard languages of programmable logic controllers. , 0, , .		1
100	Intervalwise receding horizon H/sub /spl infin// tracking controls for linear continuous time-varying systems. , 2002, , .		1
101	A stabilizing low-order output feedback receding horizon control for linear discrete time-invariant systems. , 2002, , .		1
102	Receding horizon control for input-delayed systems. , 2007, , .		1
103	Performance analysis of single Bluetooth piconet in error-prone environments. Journal of Communications and Networks, 2007, 9, 229-235.	2.6	1
104	Rapid control prototyping for robot soccer. Robotica, 2009, 27, 1091-1102.	1.9	1
105	A stabilizing min-max generalized predictive control. , 1997, , .		1
106	Discrete two degrees of freedom PID controller based on the GPC. , 0, , .		0
107	Modeling and simulation for distributed computer control systems in a steel plant. , 0, , .		0
108	Intervalwise receding horizon H/sub â^ž/ tracking control for discrete linear periodic systems. , 0, , .		0

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109	A robust GPC which guarantees H/sub âˇž/ norm bounds and its stability properties. , 0, , .		0
110	Robust stability of linear systems with structured delayed perturbations. , 0, , .		0
111	Autopilot design for BTT missiles using receding horizon predictive control scheme. , 1997, , .		0
112	Supervisory control of a discrete event system to get a desired internal behavior. , 0, , .		0
113	Feedback control of manufacturing systems using controlled marked graphs with time constraints. , 0, , .		0
114	A parallel processing method for receding horizon tracking control. , 0, , .		0
115	Observer-based fault detection and diagnosis scheme using optimal FIR filters. , 0, , .		0
116	Exponential stability of mixed constrained model predictive control. , 0, , .		0
117	On receding horizon controls for time-delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 175-180.	0.4	0
118	An unified state avoidance policy to solve forbidden state problems in generalized controlled Petri nets. , 0, , .		0
119	A stabilizing static output feedback receding horizon control for linear discrete time-invariant systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 673-678.	0.4	0
120	Scheduling Analysis for Networked Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 77-82.	0.4	0
121	A communication network with high safety, maintainability, and user convenience for digital I and C systems of nuclear power plants. , 0, , .		0
122	Stabilizing static output feedback receding horizon controls for linear discrete time-invariant systems. International Journal of Control, 2003, 76, 1437-1445.	1.9	0
123	Minimax L 2 -E 2 FIR filters for deterministic continuous-time state space signal models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1029-1034.	0.4	0
124	Receding horizon finite memory controls for output feedback controls of discrete-time state space models. , 0, , .		0
125	Sufficient LMI conditions for the H/sub /spl infin// output feedback stabilization of linear discrete-time systems. , 2004, , .		0
126	The development of finite element method package in CEMTool. , 0, , .		0

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127	RECEDING HORIZON NEURAL Hâˇž CONTROL FOR A CLASS OF NONLINEAR UNKNOWN SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 960-965.	0.4	0
128	RECEDING HORIZON FINITE MEMORY OUTPUT TRACKING CONTROL AND ITS APPLICATION TO INVERTED PENDULUM CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 403-408.	0.4	0
129	Parallel Implementation of M-Step Kalman FIR Filter for Linear Discrete Time-invariant Systems. , 2006, , .		0
130	Robustness Bound for Receding Horizon Finite Memory Control of Continuous-time State-space Systems. , 2006, , .		0
131	A receding horizon Kalman filter with the estimated initial state on the horizon. , 2007, , .		0
132	An efficient scheduling scheme based on fuzzy prediction for IEEE 802.11e WLAN. , 2007, , .		0
133	Receding horizon schemes for controls, estimations, and optimizations. , 2007, , .		0
134	FIR Filters for Stationary State Space Signal Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3701-3706.	0.4	0
135	Guaranteed Cost Controls. Communications and Control Engineering, 2019, , 133-185.	1.6	0
136	State Feedback Stabilizing Controls. Communications and Control Engineering, 2019, , 65-93.	1.6	0
137	Time-Domain FIR Filters for Stochastic and Deterministic Systems. , 2003, , 45-62.		0
138	Dead Time Compensation via the Time Domain Predictor Method. , 1984, , .		0