Curricula Vitae of Wook Hyun Kwon

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Personal Information

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Education

1972-1975	Ph.D.	Brown Univ. Providence, RI, U.S.A.
1969-1971	M.S.	Seoul National Univ (SNU) Seoul, Korea
1962-1966	B.S	Seoul National Univ. Seoul, Korea

Professional Experiences

2014-present	Trustee of DGIST
2014-present	Visiting Chair Professor of DGIST(Daegu Gyeongbuk Institute of Science and Technology)
2013-2016	Board member of Korean Academy of Science and Tech (KAST)
2011-present	Board member of LS Holding Co,
2010-2014	Chair Professor of DGIST
2008-present	Professor Emeritus of School of Electrical and Computer Engr., SNU,
2007-2015	Trustee of Pohang University of Science and Technology
2007-2010	Vice President of Korean Academy of Science and Tech (KAST)
2005-2008	President of International Federation of Automation Control (IFAC)
2003-2005	Chairman and Vice-Chairman of SNU Senate
2002-2006	Vice-President of National Academy of Engineering, Korea (NAEK)
2002-2011	Board member of LS Industrial Systems, Inc
2001-2009	Chairman of Electricity Policy Committee of Ministry of Trade and Industry of Korean Government
2001.1-2001.12	President of the Korea Institute of Electrical Engineers (KIEE)
1999.1-1999.12	President of Institute of Control, Robotics and Systems (ICROS)
1999-2000	President of Asian Control Professors' Association (ACPA)
1996-1998	Dean of School of Electrical and Computer Engr., SNU

1991-2008	Founding Director of the Engineering Research Center for Advanced Control and Instrumentation, SNU
1980-1981	Visiting Assistant Professor at Stanford Univ. in U.S.A
1977-2008	Professor of School of Electrical and Computer Engr. SNU
1976-1977	Adjunct Assistant Professor at Univ. of Iowa
1975-1976	Research Associate at Brown Univ.

Awards and Honors:

2015	Achievement Award of College of Engineering of SNU
2010	Fellow of IFAC (International federation of Automatic Control)
2007	Korean Highest Scientist/ Engineer Award (Highest Award in Korea) of Ministry of Science and Technology
2003	Brown University Engineering Alumni Medal (BEAM) Award
2000	Fellow of the World Academy of Sciences (TWAS)
1999	Fellow of the Institute of Electrical and Electronics Engineers (IEEE)
1998	Fellow of Korean Academy of Science and Technology (KAST)*
1997	Korean Academy of Science (KAS) Award*.
1996	University LEAD Award of CASA/SME of USA.
1995	Fellow of the National Academy of Engineering of Korea (NAEK)*
1995	POSCO Chair Professorship in Control and Instrumentation. SNU
	* In Korea, there are three academies, KAST, KAS, NAEK

Technical Papers

International SCI Journal papers*	151 papers
International Conference papers*	260 papers
Domestic Journal papers	48 papers

*The list will be attached in the Appendix B and C

Book Publication

(1) English Book

- W. H. Kwon, S. Han, **"Receding Horizon Control: Model Predictive Control for State Models"** Springer 2005

< This provides a comprehensive overlook for receding controls for .Control for state space System. This book are received 444 Google citations>

(2) Korean Book

- Introduction to Control Systems Engineering, Chongmoongak Publishing Co., 1999
- Introduction to Automatic Control Engineering, Chongmoongak Publishing Co., 2003
- Industrial Fieldbus Communication, Sunghndang, 2004

-Control System Design and Simulation via Inverted Pendulum, Ajin, 2006

-Digital Signal Processing using Matlab, Thompson, 2007 (translation with some edition)

<About 5 more practical books which are not listed here>

Patents

24 Domestic patents are registered

Google Scholar Citations of publications as of today.

https://scholar.google.com/citations?user=3zRtwqkAAAAJ&hl=en

Student Supervision

Ph.D   55 Students

M.S.   114 Students

As of January, 2015, 29 of them have become professors of various universities and about 32 have joined start-up companies founded by graduate students of Professor Kwon..

Start-ups Founded by Graduate Students

Graduate Students founded following 10 start-up companies motivated by Professor Kwon;

Humax (founded in 1989, IPO in 1997, www.humaxdigital.com, Digital setup box) , ,

Finedigital(founded in 1992, IPO in 1999, www.finedigital.com, Navigator),

Woorigisool(founded in 1991, IPO in 2000, www.wooritg.com, Digital Controller)

Suprema(founded in 2000, IPO in 2008, www.supremainc.com, fingerprint scanner)

Topfield(founded in 1998, IPO in 2003, www.topfield.co.kr, vedio recorder)

Vatech(founded in 1992, IPO in 2006, www.vatechcorp.co.kr, dental X-xray system)

Piolink(founded in 2000, IPO in 2013, www.piolink.com, traffic controller)

Sanion(founded in 1997, www.sanion.com, Digital protection relay)

Zelpower(founded in 1991, www.xelpower.com, demand controller for electrical power), ,

Realgain(founded in 1999, www.realgain.co,kr, digital instrument for nuclear power)

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The first seven companies of them have completed IPO in the Korean stock market, KOSDAQ. This number from a single lab of a professor is a record in Korea. The first and most successful company is Humax, which is internationally well known in the setup box business. Annual sale volume reaches over 1 billion US dollars.

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Projects

120 contracts were made, mostly from industrial companies such as Korea Electric Company,

Pohang Steel Company, Samsung Electronics, LG Industrial Company, and etc. The total project money is very large. The experiences gained through projects were main sources for the start-up companies for graduate students who participated in the projects. These will not be listed here

Software Program Development

Major parts of CEMTool and SIMTool are developed originally from Professor Kown's lab. These software packages are for the scientific computing and widely used in Korean universities

Wook Hyun Kwon Lecture Series at Seoul National University

http://kwonlecture.snu.ac.kr/

10 Most Cited Publications as of December 20, 2016

[1] Young Soo Moon, Poo Gyeon Park, Wook Hyun Kwon, and Young Sam Lee, "Delay-dependent robust stabilization of uncertain state-delayed systems", International Journal of Control, Sep. 2001(Vol. 74, No. 14), <Google Citation 1435>

[2] D.S. Kim, Y.S. Lee, W.H. Kwon, and H.S. Park, "Maximum Allowable Delay Bounds in Networked Control Systems", Control Engineering Practice (Elsvier Science), vol. 11, issue 11, pp. 1301-1313. 2003 < Google Citation 446>

[3] [Book]W. H. Kwon, S. Han, **"Receding Horizon Control: Model Predictive Control for State Models**" Springer 2005 < Google Citation 445>

[4] Y.S. Lee, Young Soo Moon, W.H. Kwon, "Delay-dependent Robust H-infinity Control for Uncertain Systems with a State-delay", AUTOMATICA, 2004. <Google Citation 441>

[5] Hyung Seok Kim, TarekAbdelzaher, and Wook Hyun Kwon, "Minimum-Energy Asynchronous Dissemination to Mobile Sinks in Wireless Sensor Networks," ACM Conference on Embedded Networked Sensor Systems (SenSys 2003), Los Angeles, USA, Nov 2003. <Google Citation 429>

[6] W.H Kwon and A.E. Pearson," A Modified Quadratic Cost Problem and Feedback Stabilization of a Linear System" IEEE Tr. Automatic Control. Vol. AC-22 No 5 1977 < Google Citation 386>

[7] W.H. Kwon and A.E. Pearson, "Feedback Stabilization of Linear Systems with Delayed Control," IEEE Trans. Automatic Control, Vol. AC-25, No. 2, 1980, pp 266 <Google Citation 343>

[8] J.H Lee, S.W. Kim, and W.H Kwon," Memoryless H-infinity Controllers for State Delayed Systems" IEEE Tr. AC. Vol.39, No 1 , Jan 1994 <Google Citation 329>

[9] H.S. Park, Y.H. Kim, D.S. Kim, W.H. Kwon, "A Scheduling Method for Network-based Control Systems", IEEE Transaction on Control System Technology,2002 vol.3. no.3 ,May 2002,pp318-330 < Google Citation 302>

[10]Park TR, Kim TH, Choi JY, et al. Throughput and energy consumption analysis of IEEE 802.15.4 slotted CSMA/CA ELECTRONICS LETTERS 41 (18): 1017-1019 SEP 1 2005 <Google Citation 295>

Appendix A.   Major Achievements of Professor Kwon

Professor Kwon have made three distinctive achievements. He has published new control theories which may have many applications. He motivated his graduate students so that they founded about 10 start-up companies which greatly helped Korean economy, He has devoted himself and has been leaders not only for domestic academic societies but also for international societies in his technical area. From these contributions he has received several fellows from international institutes and academies. He also received the Highest Scientist/Engineer Award from Korean Government whose award money was 300,000 USD. Major achievements are as follows.

I. Distinguished research achievements

During his career, Professor Kwon has published more than 150 international journal papers and 260 international conference papers. He has published a few new control theories which may have great impacts in applications

(1) Receding Horizon Control:

Professor kwon introduced for the first time the new concept of receding horizon control in his paper, "A Modified Quadratic cost Problem and Feedback Stabilization of Linear Systems " in IEEE Transactions on Automatic Control in 1977.. He proved that the receding horizon control is obtained with some terminal constraints and that it stabilizes not only time-invariant but also time–varying systems under these terminal constraints. Since the receding horizon control is obtained with repeated use of the finite horizon, he showed

that it could be easily computable even for time-varying systems. He has published many papers in the area of receding horizon control since 1977. This concept was utilized extensively for the control of chemical processes as a form of the model predictive control (MPC) from 1987, which is now the de facto control for chemical processes. The receding horizon concept has been applied by other researchers to nonlinear systems and input and state constrained systems, and similar good stability properties can be shown to be surprisingly valid under the same terminal constraints even for these difficult systems.. This Control is now well known and has wide applications in several areas Therefore Professor Kwon has made a significant initial contribution to control theory and application.

The following two papers and a text book have many citations
* W.H. Kwon and A.E Pearson " A Modified Quadratic cost Problem and Feedback Stabilization of a Linear System "IEEE Trans. Automatic Control, Vol.AC-22, No.5, 1977.
→ The above paper is the pioneering work, which introduced for the first time the concept and complete properties of the receding horizon control for linear systems. So far the paper has 386 Google citations.
* W.H. Kwon and A.E Pearson "On Feedback Stabilization of Time-Varying Discrete 6
→ The above paper is the corresponding result for discrete-time systems. The paper has 254 Google citations.
*[Book]W. H. Kwon, S. Han, "Receding Horizon Control: Model Predictive Control for State Models" Springer 2005
→The above book provides a comprehensive overlook for receding controls for .Control for state space systems. The book has 445 Goggle citations

(2) Reduction transformation and H infinity control for time-delay systems

> **First reduction transformation for input delayed systems**

Prof. Kwon introduced for the first time a reduction transformation method for control-delayed systems in 1980. He showed that control-delayed systems can always be transformed to non-delayed systems by this reduction transformation method, and stabilized easily by many conventional stabilizing control methods for the non-delayed system. Since many industrial systems can be modeled as input delayed systems, this method has large applications. .
The following paper has many citations
* W.H. Kwon and A.E Pearson "Feedback Stabilization of Linear Systems with Delayed Control," IEEE Trans. Automatic Control, Vol. AC-25, No. 2, 1980
→ The above paper introduced for the first time a reduction transformation for systems with delayed input. The reduction transformation method can substitute the well- known Smith

Predictor method. The paper has 343 Goggle citations.

> ➢ **First H-infinity Control for state delay systems**

Professor Kwon, with his student, has introduced for the first time a H-infinity control for state delayed systems via a Riccati type matrix equation. Since this paper is the first paper for state delayed systems in a rather general form, it ignites many researches to obtain various H infinity controls in other forms.

The following paper has many citations

* J.H. Lee S.W. Kim and W.H. Kwon "Memoryless H Controllers for State Delayed Systems," IEEE Tr. AC, Vol. 39, No. 1, Jan., 1994

→ The above paper introduced for the first time a H-infinity control method for time-delay systems, Therefore this paper has been referred by many researchers in this area. So far the paper had 329 Goggle citations.

(3) A powerful inequality condition which generates various robust controls

Professor Kwon, with his student, has introduced a very useful and powerful inequality equation for cross term, from which various robust stabilizing controls can be obtained, particular for time delay systems which have many inherent cross terms. Therefore this result is not only mathematically interesting but also can have many applications for time delay systems.

The following papers have many citations

*Young Soo Moon, Poo Gyeon Park, Wook Hyun Kwon, and Young Sam Lee, "Delay dependent robust stabilization of uncertain state-delayed systems", International Journal of Control, Sep. 2001(Vol. 74, No. 14).

→ This paper introduced a very useful and powerful inequality equation for robust stabilizing controls for time delay systems, which ignited many research papers. The paper has 1435 Goggle citations.

*Y.S. Lee, Young Soo Moon, W.H. Kwon, "Delay-dependent Robust H-infinity Control for Uncertain Systems with a State-delay", AUTOMATICA, 2004.

→ This papers introduced a similar problem to the above paper via a proper choice of Lyapunov functional and a Bounded Real Lemma for delay systems. This paper has 441 Google citations.

II. Foundation of 10 start-up companies such as Humax in Korea

Professor Kwon motivated many graduate students for opportunity for start-up companies. Humax was founded by 7 graduates from his lab in 1989. This company has been very successful in digital set-top box business and become one of the three biggest suppliers in

the world. This company had IPO (Initial Public Opening) in 1997 and is a listed leading company in the KOSDAQ in Korea, equivalent to NASDAQ in USA. The annual sale reached over a billion US dollars. Since then, about 9 start-up companies have been founded by his former graduate students. They are as follows;

Humax (founded in 1989, IPO in 1997, www.humaxdigital.com, Digital setup box) , ,
Finedigital(founded in 1992, IPO in 1999, www.finedigital.com, Navigator),
Woorigisool(founded in 1991, IPO in 2000, www.wooritg.com, Digital Controller)
Superima(founded in 2000, IPO in 2008, www.suprema.co.kr, fingerprint scanner)
Topfield(founded in 1998, IPO in 2003, www.topfield.co.kr, vedio recorder)
Vatech(founded in 1992, IPO in 2006, www.vatechcorp.co.kr, dental X-xray system)
Piolink(founded in 2000, IPO in 2013, www.suprema.co.kr, traffic controller)
Senion(founded in 1997, www.sanion.com, Digital protection relay)
Zelpower(founded in 1991, www.xelpower.com, demand controller for electrical power), ,
Realgain(founded in 1999, www.realgain.co,kr, digital instrument for nuclear power)
,
The seven companies of them have completed IPO in the Korean stock market, KOSDAQ. This number from a single lab of a professor is a record in Korea. Professor Kwon sometimes is recognized as a god-father of the start-up business in the university circle. From this activity, he received the first knowledge Innovation Award from Maeil Economic Newspaper in 2000, the leading daily economic newspaper in Korea.

III. Leadership in international and domestic academic societies

(1) International leadership

Professor Kwon was President of International Federation of Automatic Control (IFAC) in 2005.7 -2008.7. IFAC is the largest organization in control areas and was founded in 1957 with about 50 national member organizations. The secretariat is located in Laxenburg in Austria, near to Vienna. Professor Kwon prepared an outstanding and very successful IFAC world Congress in Seoul, 2008, which was selected by Seoul Metropolitan Government as the best convention among all those held in Seoul in 2008-2009 and thus received the 2009 Seoul Tourism Award..

. He was one of key persons to initiate Asian Control Conference (ASCC) in the Asia region that is equivalent to American Control Conference (ACC) in USA. Professor Kwon was one of two key persons to found Asian Control Professors' Association (ACPA) for the promotion of control education in Asia trough cooperation between Asian control professors and served for two years as 2nd President of ACPA. He was one of two key leaders to create Asia Control Association (ACA) which includes ACPA and ASCC. He

became the first advisor to ACA, which also provides the ACA Wook Hyun Kwon Education Award biannually.

He has become a world leader as well as an Asian leader in his technical field

(2) Domestic leadership

Professor Kwon is one of very influential persons in Korean academic societies.

He was the key founder of Korean Automatic Control Conference (KACC), equivalent to ACC (American Control Conference) in 1986 and also Institute of Control, Automation and Systems Engineers (ICASE), now Institute of Control, Robotics and Systems (ICROS), in 1994. He later became President of ICASE in 1999. He was President of the Korean Institute of Electrical Engineers (KIEE) in 2001, equivalent to IEEE in USA, although the size is smaller. During 2002-2006 he served as Vice-President of National Academy of Engineering of Korea (NAEK), equivalent to National Academy of Engineering of USA. During 2007-2010 he also served as Vice-President of Korean Academy of Science and Technology (KAST), equivalent to National Academy of Sciences of USA. In fact, he was a very successful leader in 4 large domestic institutes such as ICASE, KIEE, NAEK and KAST.

Professor Kwon has devoted himself to promoting control engineering in Korea. Since 1991 he has been the founding Director of the Engineering Research Center for Advanced Control and Instrumentation (ERC-ACI) established at SNU by the Korean Science and Engineering Foundation (KOSEF). This center supported about 15 professors of about 10 universities in Korea and won the prestigious University LEAD Award from Society of Manufacturing Engineers (SME) of USA for the outstanding achievements under his leadership.

Appendix B. List of International Journal Papers

[151] Junwon Jang, Soohee Han, Hanjun Kim, Choon Ki Ahn,and Wook Hyun Kwon ``Rapid Control Prototyping for Robot Soccer'' Robotica, Vol. 27, No. 7, Pages 1091-1102, Dec., 2009.

[150] Bo Kyu Kwon, Soohee Han, and Wook Hyun Kwon ``A Continuous-time Fixed-lag Smoother Converging in Finite Time'' IEEE Transactions on Automatic Control, Vol. 54, No. 7, Pages 1613-1618, July 2009.

[149] Soohee Han, Bo Kyu Kwon, and Wook Hyun Kwon ``Minimax$ FIR Smoothers for Deterministic Continuous-Time State Space Signal Models''Automatica, Vol. 45, No. 6, Pages 1561-1566, June 2009

[148] Bo Kyu Kwon, Ji-Woong Choi, Jung Hun Park, Soohee Han, and Wook Hyun Kwon ``A Best Lag Size of Minimum Variance FIR Smoothers'' IEEE Signal Processing Letters, Vol. 16, No. 4, Pages 307-310, Apr., 2009.

[147] Z. Quan, S. Han, J. H. Park, and W. H. Kwon, "Robust FIR filters for linear continuous-time state-space models with uncertainties," IEEE Signal Proceeding Letters 15, Oct. 2008

[146] J. H. Park, S. Han, and W. H. Kwon, "LQ tracking controls with fixed terminal states and their application to receding horizon controls," Systems and Control Letters 57(9), Sep. 2008

[145] J. H. Park, H. W. Yoo, S. Han, and W. H. Kwon, "Receding horizon controls for input-delayed systems," IEEE Transactions on Automatic Control 53(7), Aug. 2008

[144] S. Han and W. H. Kwon, "A note on two-filter smoothing formulas," IEEE Transactions on Automatic Control 53(3), Apr. 2008

[143] J. H. Park, Z. Quan, S. Han, and W. H. Kwon, "New recursive least squares algorithms without using the initial information," IEICE Transactions on Communications E91B(3), Mar. 2008

[142] S. Han and W. H. Kwon, "L2-E FIR filters for deterministic continuous-time-state space signal models," IEEE Transactions on Automatic Control 53(1), Feb. 2008

[141] N. Kim, J. Heo, H. S. Kim, and W. H. Kwon, "Reconfiguration of clusterheads for load balancing in wireless sensor networks," Computer Communications 31(1), Jan. 2008

[140] N. Kim, S. Han, and W. H. Kwon, "Optimizing the number of clusters in multi-hop wireless sensor networks," IEICE Transactions on Communications E91B(1), Jan. 2008

[139]Kwon BK, Han S, Kwon WH, Minimum variance FIR smoothers for continuous-time state space signal models IEEE SIGNAL PROCESSING LETTERS 14 (12): 1024-1027 DEC 2007

[138]Lee K, Ha JY, Park HS, et al.Throughput and optimal ATIM window of IEEE 802.11 distributed coordination function in power saving mode IEICE TRANSACTIONS ON COMMUNICATIONS E90B (10): 2957-2960 OCT 2007

[137]Shin SY, Park HS, Kwon WH, Packet error rate analysis of IEEE 802.15.4 under saturated IEEE 802.11b network interference IEICE TRANSACTIONS ON COMMUNICATIONS E90B (10): 2961-2963 OCT 2007

[136]Shin SY, Park HS, Kim DS, et al. Performance analysis of single Bluetooth piconet in error-prone environments JOURNAL OF COMMUNICATIONS AND NETWORKS 9 (3): 229-235 SEP 2007

[135]Quan Z, Han S, Kwon WH, A robust FIR filter for linear discrete-time state-space signal models with uncertainties IEEE SIGNAL PROCESSING LETTERS 14 (8): 553-556 AUG 2007

[134]Kwon BK, Han SH, Kwon OK, et al. Minimum variance FIR smoothers for discrete-time state space models IEEE SIGNAL PROCESSING LETTERS 14 (8): 557-560 AUG 2007

[133]Shin SY, Park HS, Kwon WH, Mutual interference analysis of IEEE 802.15.4 and IEEE 802.11b COMPUTER NETWORKS 51 (12): 3338-3353 AUG 22 2007

[132]Shin SY, Park HS, Choi S, et al. Packet error rate analysis of ZigBee under WLAN and Bluetooth interferences IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 6 (8): 2825-2830 AUG 2007

[131]Han SH, Kwon WH, L-2-E FIR smoothers for deterministic discrete-time state-space signal models IEEE TRANSACTIONS ON AUTOMATIC CONTROL 52 (5): 927-932 MAY 2007

[130]Ha JY, Kim TH, Park HS, et al. An enhanced CSMA-CA algorithm for IEEE 802.15.4 LR-WPANs IEEE COMMUNICATIONS LETTERS 11 (5): 461-463 MAY 2007

[129]Park CJ, Han SH, Lee DM, et al. Direct width control systems based on width prediction models in hot strip mill ISIJ INTERNATIONAL 47 (1): 105-113 2007

[128]Kim B, Kwon WH, Back CK, et al. Edge profile effect of tunnel oxide on erase threshold voltage distributions in flash memory cells (vol 54, pg 4, 2007) IEEE TRANSACTIONS ON ELECTRON DEVICES 54 (4): 893-893 APR 2007

[127]Lee YS, Kwon WH, Park PG, Author's reply: Comments on delay-dependent robust H-infinity control for uncertain systems with a state-delay, AUTOMATICA 43 (3): 572-573 MAR 2007

[126]Quan ZH, Han S, Kwon WH, Stability-guaranteed horizon size for receding horizon control IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES E90A (2): 523-525 FEB 2007

[125]Ahn CK, Han S, Kwon WH, H-infinity finite memory controls for linear discrete-time state-space models IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS 54 (2): 97-101 FEB 2007

[124]Myoung KJ, Shin SY, Park HS, et al. IEEE 802.11b performance analysis in the presence of IEEE 802.15.4 interference IEICE TRANSACTIONS ON COMMUNICATIONS E90B (1): 176-179 JAN 2007

[123]Kim B, Kwon WH, Baek CK, et al. Edge profile effect of tunnel oxide on erase threshold-voltage distributions in Flash memory cells IEEE TRANSACTIONS ON ELECTRON DEVICES 53 (12): 3012-3019 DEC 2006

[122]Lee YS, Han SH, Kwon WH, H-2/H-infinity FIR filters for discrete-time state space models INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS 4 (5): 645-652 OCT 2006

[121]Myoung KJ, Lee JM, Kim DS, et al. Home network control protocol for networked home appliances IEEE TRANSACTIONS ON CONSUMER ELECTRONICS 52 (3): 802-810 AUG 2006

[120]Ahn CK, Han S, Kwon WH, H infinity FIR filters for linear continuous-time state-space systems IEEE SIGNAL PROCESSING LETTERS 13 (9): 557-560 SEP 2006

[119]Lee W, Bang YB, Ryou MS, et al. Development of a PC-based milling machine operated by STEP-NC in XML format INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING 19 (6): 593-602 SEP 2006

[118]Ryou MS, Jee HS, Kwon WH, et al. Development of a data interface for rapid prototyping in STEP-NC INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING 19 (6): 614-626 SEP 2006

[117]Ahn CK, Han SH, Kwon WH, Robustness bounds for receding horizon controls of continuous-time systems with uncertainties , IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES E89A (4): 1122-1125 APR 2006

[116]Lee KH, Lee JH, Kwon WH, Sufficient LMI conditions for H infinity output feedback stabilization of linear discrete-time systems, IEEE TRANSACTIONS ON AUTOMATIC CONTROL 51 (4): 675-680 APR 2006

[115]Lee YS, Han SH, Kwon WH, Receding horizon H-infinity control for systems with a state-delay, ASIAN JOURNAL OF CONTROL 8 (1): 63-71 MAR 2006

[115]Lee YS, Han SH, Kwon WH, Receding horizon H-infinity control for systems with a state-delay, ASIAN JOURNAL OF CONTROL 8 (1): 63-71 MAR 2006

[114]Lo KM, Kimura H, Kwon WH, et al. Empirical frequency-domain optimal parameter estimate for black-box processes , IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS 53 (2): 419-430 FEB 2006

[113]Kim HS, Kwon WH, Cellular energy density vector routing for improving lifetime in wireless sensor networks DYNAMICS OF CONTINUOUS DISCRETE AND IMPULSIVE SYSTEMS-SERIES B-APPLICATIONS & ALGORITHMS 13 (1): 1-20 FEB 2006

[112]Lee YS, Kwon OK, Kwon WH, Delay-dependent guaranteed cost control for uncertain state-delayed systems INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS 3 (4): 524-532 DEC 2005

[111]Park TR, Kim TH, Choi JY, et al. Throughput and energy consumption analysis of IEEE 802.15.4 slotted CSMA/CA ELECTRONICS LETTERS 41 (18): 1017-1019 SEP 1 2005

[110]Lee JM, Han SH, Park HS, et al. Performance analysis of the IEEE 802.11 DCF with time-varying channel environments IEICE TRANSACTIONS ON COMMUNICATIONS E88B (9): 3784-3787 SEP 2005

[109]Shin SY, Choi SY, Park HS, et al. Lecture notes in computer science: Packet error rate analysis of IEEE 802.15.4 under IEEE 802.11b interference, LECTURE NOTES IN COMPUTER SCIENCE 3510: 279-288 2005

[108]Choi JY, Kim HS, Baek I, et al. Cell based energy density aware routing: a new protocol for improving the lifetime of wireless sensor networks, COMPUTER COMMUNICATIONS 28 (11): 1293-1302 JUL 5 2005

[107]Kwon WH, Han SH, Ahn CK, Advances in nonlinear predictive control: A survey on stability and optimality INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS 2 (1): 15-22 MAR 2004

[106]Kim KB, Kwon WH, Stabilising intervalwise receding horizon H-infinity tracking controls for continuous time-varying systems, IEE PROCEEDINGS-CONTROL THEORY AND APPLICATIONS 151 (5): 526-530 SEP 2004

[105]Kwon WH, Han SH, Receding horizon finite memory controls for output feedback controls of state-space systems IEEE TRANSACTIONS ON AUTOMATIC CONTROL 49 (11): 1905-1915 NOV 2004

[104]Lee KH, Lee JH, Kwon WH, A nonlinear minimization approach to multiobjective and structured controls for discrete-time systems, INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL 14 (16): 1327-1343 NOV 10 2004

[103]Yang YS, Roh TM, Lee DW, et al. Novel current driving circuit for active matrix organic light emitting diode ETRI JOURNAL 26 (5): 509-511 Sp. Iss. SI OCT 2004

[102]Lee SR, Kwon WH, Sung KM, Generalizing the Hadamard Matrix using the reverse jacket matrix IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES E87A (10): 2732-2743 OCT 2004

[101]Cho YC, Cassandras CG, Kwon WH, Optimal control for steel annealing processes as hybrid systems, CONTROL ENGINEERING PRACTICE 12 (10): 1319-1328 OCT 2004

[100]Park CW, Kwon WH, Simple and robust speed sensorless vector control of induction motor using stator current based MRAC, ELECTRIC POWER SYSTEMS RESEARCH 71 (3): 257-266 NOV 2004ⅼ

[99]Kwon WH, Lee YS, Han SH, General receding horizon control for linear time-delay systems, AUTOMATICA 40 (9): 1603-1611 SEP 2004

[98]Kim HS, Kwon WH Spatial and temporal multi-aggregation for state-based sensor data in wireless sensor networks TELECOMMUNICATION SYSTEMS 26 (2-4): 161-179 JUN-AUG 2004

[97]Kim HS, Shin SY, Kwon WH, Feedback control for QoS of mixed traffic in communication networks, CONTROL ENGINEERING PRACTICE 12 (5): 527-536 MAY 2004

[96]Park CW, Kwon WH, Time-delay compensation for induction motor vector control system, ELECTRIC POWER SYSTEMS RESEARCH 68 (3): 238-247 MAR 2004

[95]Lee YS, Moon YS, Kwon WH, et al. Delay-dependent robust H-infinity control for uncertain systems with a state-delay, AUTOMATICA 40 (1): 65-72 JAN 2004

[94]Kim DS, Lee YS, Kwon WH, et al. Maximum allowable delay bounds of networked control systems, CONTROL ENGINEERING PRACTICE 11 (11): 1301-1313 NOV 2003*

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Appendix C. List of International Conference Papers

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