

# 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

2015-present	Member of SAB (Science Advisory Board) of IBS (Institute of Basic Sciences) of Korea
2014-2017	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)

2011-2017	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:**

2018	Designated as Man of National Merit for Science and Technology by Korean Government (who will be introduced at National Hall of Fame for Science and Technology)
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 (with 300,000 USD prize)
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*	149 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 Text Books

- 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 has received 583 Google Scholar citations as of July 1, 2019 >

-W.H. Kwon, PooGyeon Park, "**Stabilizing and Optimizing Controls for Time-Delay Systems**" Springer 2018

< This provides three classes of stabilizing controls for time-delay systems: non-optimal: (without performance criteria): suboptimal (including guaranteed costs): and optimal controls. The book provides a unified mathematical framework with common notation being used throughout >

### (2) Korean Books

Professor Kwon authored 13 Korean books, edited 4 Korean books, and translated 3 books, some of which are as follows.

- 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
- Introduction to CEMTOOL 6.0 with applications, Ajin, 2007
- Digital Signal processing using Matlab, Thompson, 2007 (translation with some edition)

## 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.	110 Students

As of January, 2019, 30 of them have become professors of various universities and about 40 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](http://www.humaxdigital.com), Digital setup box) , , **Finedigital**(founded in 1992, IPO in 1999, [www.finedigital.com](http://www.finedigital.com), Navigator), **Woorigisool**(founded in 1991, IPO in 2000, [www.wooritg.com](http://www.wooritg.com), Digital Controller) **Suprema**(founded in 2000, IPO in 2008, [www.supremainc.com](http://www.supremainc.com), fingerprint scanner) **Topfield**(founded in 1998, IPO in 2003, [www.topfield.co.kr](http://www.topfield.co.kr), video recorder) **Vatech**(founded in 1992, IPO in 2006, [www.vatechcorp.co.kr](http://www.vatechcorp.co.kr), dental X-ray system) **Piolink**(founded in 2000, IPO in 2013, [www.piolink.com](http://www.piolink.com), traffic controller) Sanion(founded in 1997, [www.sanion.com](http://www.sanion.com), Digital protection relay) Zelpower(founded in 1991, [www.xelpower.com](http://www.xelpower.com), demand controller for electrical power), , Realgain(founded in 1999, [www.realgain.co.kr](http://www.realgain.co.kr), digital instrument for nuclear power)

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.

## 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 founded by 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 Kwon'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

This lecture consists of an invited talk by a celebrated researcher who has contributed to the field, and a satellite workshop or colloquium. This lecture series was initiated in 2016 and the invited speakers are Prof. Thomas Kailath from Stanford University (2016), Prof. Alberto Isidori from University of Rome (2017), Prof. Stephen Boyd from Stanford University (2018), and Prof. Mafred Morari from University of Pennsylvania(2019).

Website : <http://kwonlecture.snu.ac.kr/>

### 10 Most Cited Publications as of July 1, 2019

- [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 1629](#)>
- [2] [Book]W. H. Kwon, S. Han, "**Receding Horizon Control: Model Predictive Control for State Models**" Springer 2005, <[Google Citation 583](#)>
- [3] 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 485](#)>
- [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 480](#)>
- [5] D.S. Kim, Y.S. Lee, W.H. Kwon, and H.S. Park, "Maximum Allowable Delay Bounds in Networked Control Systems", Control Engineering Practice (Elsevier Science), vol. 11, issue 11, pp. 1301-1313. 2003 <[Google Citation 473](#)>
- [6] 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 473](#)>
- [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 443](#)>
- [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 424](#)>
- [9] 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 333](#)>
- [10] 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 324](#)>

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## **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 can be a good model for entrepreneurship for graduate students in Korea. 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 fellowships from international institutes and academies. He also received the Highest Scientist/Engineer Award from Korean Government whose award money was 300,000 USD. Finally, in 2019, he was designated as Man of National. Merit for Science and Technology by Korean Government

Major achievements are as follows.

### **I. Distinguished research achievements**

During his career, Professor Kwon has published about 150 international journal papers and about 260 international conference papers. He has developed a few new control theories which may have great impacts in applications. Google Scholar citations are listed as of July 1. 2019.

#### **(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 some 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 some 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 485 Google Scholar 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 305 Google Scholar 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 state space systems. The book has 583 Goggle Scholar citations

## **(2) Reduction transformation and two robust controls for time-delay systems**

Prof. Kwon introduced three important results for time-delay systems. The first one is the reduction transformation for the input-delayed systems, the second is H-infinity control for state delay systems, and the third is two robust controls related to a powerful inequality. They are introduced, with other subjects, in his recent book

[Book] W.H. Kwon, PooGyeon Park, "Stabilizing and Optimizing Controls for Time-Delay Systems" Springer 2018

Some details are as follow.

### **➤ 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 443 Goggle Scholar 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 424 Goggle Scholar citations.

➤ **A powerful inequality and two related robust controls**

Professor Kwon, with his student, has introduced a very useful and powerful inequality for cross terms, 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 1629 Goggle Google Scholar 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 480 Google citations.

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

Professor Kwon motivated many graduate students for start-up companies. Humax was founded by 7 graduates first 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. Nine other 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](http://www.humaxdigital.com), Digital setup box) , ,

**Finedigital** ( founded in 1992, IPO in 1999, [www.finedigital.com](http://www.finedigital.com), Navigator),

Woorigisool ( founded in 1991, IPO in 2000, [www.wooritg.com](http://www.wooritg.com), Digital Controller)

**Superima** ( founded in 2000, IPO in 2008, [www.suprema.co.kr](http://www.suprema.co.kr), fingerprint scanner)

Topfield ( founded in 1998, IPO in 2003, [www.topfield.co.kr](http://www.topfield.co.kr), vedio recorder)

**Vatech** ( founded in 1992, IPO in 2006, [www.vatechcorp.co.kr](http://www.vatechcorp.co.kr), dental X-xray system)

**Piolink** ( founded in 2000, IPO in 2013, [www.suprema.co.kr](http://www.suprema.co.kr), traffic controller)

Senion ( founded in 1997, [www.sanion.com](http://www.sanion.com), Digital protection relay)

Zelpower( founded in 1991, [www.xelpower.com](http://www.xelpower.com), demand controller for electrical power), ,

Realgain ( founded in 1999, [www.realgain.co.kr](http://www.realgain.co.kr), digital instrument for nuclear power)

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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 2<sup>nd</sup> 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**

### **International Journal papers**

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Note: International journal papers of domestic societies are excluded

[149]SY Shin, DH Woo, JW Lee, HS Park, WH Kwon, Active channel reservation for coexistence mechanism (ACROS) for IEEE 802.15. 4 and IEEE 802.11 IEICE transactions on communications 93 (8), 2082-2087,2010

[148]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.

[147]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.

- [146]Bo Kyu Kwon, Soohee Han, and Wook Hyun Kwon "A Continuous-time Recursive Fixed-lag Smoother Converging in Finite Time" IEEE Transactions on Automatic Control, Vol. 54, No. 7, Pages 1613-1618, July 2009.
- [145]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
- [144]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
- [143]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
- [142] 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
- [141] S. Han and W. H. Kwon, "A note on two-filter smoothing formulas," IEEE Transactions on Automatic Control 53(3), Apr. 2008
- [140] 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 91(3), 968-971 Mar. 2008
- [139] 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
- [138] 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
- [137] 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
- [136] J Jeon, JW Lee, HS Kim, WH Kwon "Pecap: Priority-based delay alleviation algorithm for IEEE 802.15.4 beacon-enabled networks" Wireless Personal Communications 43 (4), 1625-1631,2007
- [135] JY Ha, HS Park, S Choi, WH Kwon "EHRP: Enhanced hierarchical routing protocol for Zigbee mesh networks" IEEE Communications Letters 11 (12) 1028-1030, 2007
- [134] J Heo, K Lee, HK Kang, DS Kim, WH Kwon "Adaptive channel state routing for home network systems using power line communications" IEEE Transactions on Consumer Electronics 53 (4)
- [133]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
- [132]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
- [131]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
- [130]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
- [129]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
- [128]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
- [127]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
- [126]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
- [125]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
- [124]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
- [123]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
- [122]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
- [121]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
- [120]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
- [119]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
- [118] D Yoon, S Shin, J Park, H Park, W Kwon “[Performance analysis of IEEE 802.11 b under multiple IEEE 802.15. 4 interferences](#)” *Wired/Wireless Internet Communications*, 213-222
- [117]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
- [116] C Ahn, S Han, W Kwon “[Parametric uncertainty bounds for stabilizing receding horizon  \$H\_\infty\$  controls](#)” *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences* Vol.E89-A No.9 pp.2433-2436
- [1151]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
- [114]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
- [113]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 <no google>

- [112]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
- [111]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
- [110]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
- [109]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
- [108]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
- [107]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
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## Appendix C. List of International Conference Papers

Updated 19-07-20

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