# Curricula Vitae of Wook Hyun Kwon

Updated September 1, 2022

## Personal Information


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| Name: | Wook Hyun Kwon |
| Nationality | Korea |
| Mobile | +82-10-5211-8135 |
| Fax | +82-53-785-6309 |
| Email | whkwon@snu.ac.kr/ whkwon@dgist.ac.kr |


## 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

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|---|---|
| 2015-2021 | 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 |

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|---|---|
| 2007-2015 | Trustee of Pohang University of Science and Technology |
| 2007-2010 | Vice President of Korean Academy of Science and Tech (KAST) |
| 2002-2006 | Vice-President of National Academy of Engineering, Korea (NAEK) |
| 2005-2008 | President of International Federation of Automation Control (IFAC) |
| 2003-2005 | Chairman and Vice-Chairman of SNU Senate |
| 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**:

| | |
|---|---|
| 2022 | Member of the National Academy of Engineering (NAE, USA) |
| 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) website: http://koreascientists.kr/ |
| 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 | Member of the World Academy of Sciences (TWAS) |
| 1999 | Fellow of the Institute of Electrical and Electronics Engineers (IEEE) |
| 1998 | Member 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 | Member 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 (listed in Appendix B) |
| International Conference papers* | 260 papers (not listed) |
| Domestic Journal papers | 48 papers (not listed) |

*The International SCI Journal papers will be attached in the Appendix B.

## Book Publication

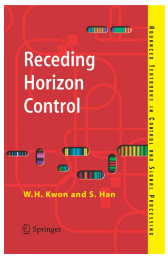
### (1) English Text Books

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

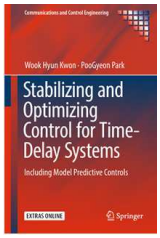
  *This provides a comprehensive overlook for receding controls for Control for state space System. This book has received 697 Google Scholar citations as of April 30, 2019>

-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




Receding Horizon Control




Stabilizing and Optimizing Control for Time-Delay System

### (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 April 30, 2021, 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, 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)


Fig. Startups founded by graduate students

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. Total annual sale volume of all start-ups reach about 2 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

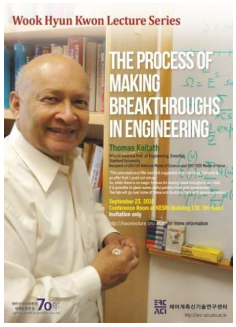
**Software Program Development**

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

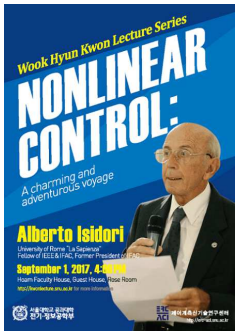
**Wook Hyun Kwon Lecture Series** at Seoul National University

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 by Professor Kwon to promote control science to Korean students. Under Prof. Kwon's leadership, all invited speakers are distinguished scholars such as Prof. Thomas Kailath from Stanford University (2016), Prof. Alberto Isidori from University of Rome (2017), Prof. Stephen Boyd from Stanford University (2018), Prof. Mafred Morari from University of Pennsylvania (2019), and Professor Brian Anderson from National Australian University (2020). Professors Kailath, Boyd, Morari, and Anderson are members of NAE of USA.

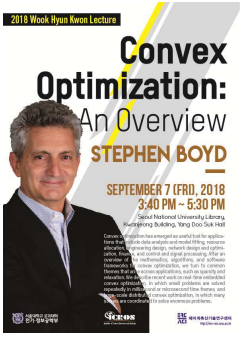
Website : http://kwonlecture.snu.ac.kr/




**Prof. Tom Kailath**




**Prof Alberto Isidori**




**Prof Stephen Boyd**


**Prof Manfred Mora-**

**ri,**

## 10 Most Cited Publications as of September 1, 2022

[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 1788>

[2] [Book]W. H. Kwon, S. Han, "**Receding Horizon Control: Model Predictive Control for State Models**" Springer 2005, < Google Citation 776>

[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 566

[4] 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 550>

[5] Hyung Seok Kim, TarekAbdelzaher, and Wook Hyun Kwon, "Minimum-Energy Asynchronous Dissemination to Mobile Sinks in Wireless Sensor Networks," Proceedings of the 1st international conference on Embedded networked system, pp.193-204, Nov 2003. <Google Citation 532>

[6] 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 510>

[7] 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 510>

[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 439>

[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 366>

[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 344>

References


1. Thomas Kailath, Professor emeritus, Stanford University, NAE member, profkailath@yahoo.com
2. Brian Anderson, Professor emeritus, Australian National University, NAE international member, Brian.Anderson@anu.edu.au
3. Manfred Morari, Professor, University of Pennsylvania, NAE member,

morari@seas.upenn.edu

4. Stephen Boyd, Professor, Stanford University, NAE member, boyd@stanford.edu

# Appendix A. Major Achievements of Professor Kwon

Professor Kwon have made three distinctive achievements.

1. He has introduced very important controls which can have wide applications in various industries.
2. 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.
3. 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 2018, he was designated as Man of National. Merit for Science and Technology by Korean Government. So far 69 persons(47 deceased, 22 alive) are designated., among whom 22 persons(12 deceased, 9 alive) are engineers. website: http://koreascientists.kr/

Major achievements are as follows.

## Achievement I. Introduction of important controls such as (1) the receding horizon control, (2) control using the reduction transformation for input delay systems, and (3) control using the integral inequality for state delay systems.

During his career, Professor Kwon has published about 150 international journal papers and about 260 international conference papers. He has developed a few new controls which may have great impacts in applications. Google Scholar citations are listed as of April 30, 2021.

### (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 explain receding horizon controls with many citations.

[1]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 566 oogle Scholar citations

[2] W.H. Kwon and A.E Pearson "On Feedback Stabilization of Time-Varying Discrete Linear Systems”, IEEE Trans. Automatic Control, Vol.AC-23, No.3, 1978

*The above paper is the corresponding result for discrete-time systems. The paper has 329 oogle Scholar citations

[3][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 776 Goggle scholar citations

**(2) Control using the reduction transformation for input delay systems**

Prof. Kwon introduced for the first time a reduction transformation method for input or 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 and book explain reduction transformation with many citations

[1] 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 550 Goggle Scholar

citations

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

*The above book provides a comprehensive overlook for reduction transformation for input delay systems

### (3) Control using the integral inequality for state delay systems.

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

The following papers explains the powerful integral inequality with many citations

[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).

*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 1788 Goggle Google Scholar citations

[2]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 510 Google citations

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

*The above book provides a comprehensive overlook for the integral inequality with related two robust controls for state delay systems

## Achievement 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, 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. 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. Total annual sale volume of all start-ups reach about 2 billion US dollars. 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 Daily Newspaper in 2000, the leading daily economic newspaper in Korea.

## Achievement 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 founded the IFAC Foundation from his financial donation of 500,000USD to IFAC. He opened PapersOnLine, an open on-line proceedings publication, during his IFAC presidency.

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 is Fellow of IEEE, IFAC, and a member of TWAS(The World Academy of Sciences). He received BEAM(Brown Engineering Alumni Medal) award in 2003 from Brown University. 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 ICROS, 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.

Professor Kwon has introduced **Wook Hyun Kwon Lecture Series** at Seoul National University to promote control engineering to Korean students. This lecture series was initiated in 2016. Under Prof Kwon's leadership, all invited speakers are distinguished scholars such as Prof. Thomas Kailath from Stanford University (2016), Prof. Alberto Isidori from University of Rome (2017), Prof. Stephen Boyd from Stanford University (2018), Prof. Manfred Morari from University of Pennsylvania(2019)., and Professor Brian Anderson from National Australian University(2022). Professors Kailath, Boyd, Morari, and Anderson are all NAE members.

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

## Appendix B. List of International Journal Papers

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 dela 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 ee” 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

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