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AGREEMENT FOR ACADEMIC COOPERATION

BETWEEN

VEL TECH DR. RR & DR. SR TECHNICAL UNIVERSITY

VEL TECH RANGARAJAN DR.SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY

(UNIVERSITY U/S 3 OF UGC ACT 1956)

TAMILNADU,INDIA

AND

SUNGKYUNKWAN UNIVERSITY

KOREA

Vel Tech Dr.RR & Dr.SR Technical University (Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology)and Sungkyunkwan University (SKKU) hereby mutually agree to enter into an academic, educational, and cultural exchange agreement as follows:

I. Both parties agree:

1. To the reciprocal exchange of faculty, staff, and students
2. To engage in joint research projects
3. To exchange education, training and teaching materials
4. To foster the exchange of academic publications and information, and
5. To promote other academic activities.

II. For the sake of active exchanges according to the agreement both universities should provide further details.

III. The agreement signed by the two parties will remain valid for two (2) years. The agreement can change if both parties desire but at least six (6) months notice must be given before the expiry date. At the end of the two-year term, the agreement will be extended automatically for a further two (2) years if no official request otherwise is taken into account.

IV. The agreement can be amended or terminated as agreed by both universities.

V. Two (2) copies of the agreement will be signed in English, and both copies are recognized as formal documents.

On behalf of

Vel Tech Dr.RR & Dr.SR
Technical University

Vel R. Rangarajan

Chancellor

Date:

On behalf of

Sungkyunkwan University

Jun Young Kim

President

Date:

October 10, 2012



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Sungkyunkwan University, South Korea

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
Sungkyunkwan University	South Korea	4 Years	2012-13	10.10.2012	09.10.2016	Exchange of Faculty & Students, Joint Research projects; Exchange Education, Training and Teaching Materials; Exchange of Academic Publications and Information

Actual Activities with Sungkyunkwan University, South Korea

A.Y. 2019-20	Faculty Mobility (Incoming - Short Courses) - 2
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MoU Coordinator


Dean - International Relations

Dr. P. Suresh
Dean - International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)





Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical and communication
Department of Electronics and Communication
Engineering

Specialized one credit course on
“Structure and Application of Smart IoT”
(1157EC940)

by
Prof. Dr. Hee Yong Youn
Sungkyunkwan University, South Korea



Held on
Date: February 10 to 14, 2020

Curriculum Vita

Hee Yong Youn
College of Software
Sungkyunkwan University
Suwon, Korea
(031)290-7147, 010-9124-3008, youn7147@skku.edu

- **EDUCATION**

- Ph.D. in Computer Engineering, Univ. of Massachusetts, Amherst, Sept. 1988.
- M.S. in Electrical Engineering, Seoul National University, Seoul, Korea, Feb. 1979.
- B.S. in Electrical Engineering, Seoul National University, Seoul, Korea, Feb. 1977.

- **EXPERIENCE**

- Teaching and Research
 - Endowed Professor, College of Information and Communication Engineering, Sungkyunkwan University, Korea (Sept. '00 - present)
 - Director, Ubiquitous computing Technology Research Institute (UTRI), Sungkyunkwan University, (Oct. '03 – present)
 - Consulting Professor, Samsung DS Software Center, (Aug. '13 – present)
 - Associate Professor (tenured), The Univ. of Texas at Arlington (June '93 - Aug. '00)
 - Assistant Professor, The Univ. of Texas at Arlington (June '91 - May '93), Univ. of North Texas (Sept. '88 - May '91)
 - Taught undergraduate and graduate courses - Computer Architecture, Advanced Computer Architecture, Operating Systems, Computer Network, Digital Logic Design, Computer System Performance Evaluation, Microcomputer System Design, Parallel Computing, Theoretical Computer Science, Fault Tolerant Computing, Senior Design, Ubiquitous Computing, Mobile Communication
 - Research on parallel and distributed computing, mobile computing, RFID/USN, middleware, ubiquitous computing, fault-tolerant computing
- Industrial
 - Senior Researcher, Gold Star Precision Co., Central Research Lab., Korea. (Jan. 1979 - July 1984)
 - ✓ Supervisor of Computer System Lab
 - ✓ R&D of CPU for commercial and military application systems
 - Consultant
 - ✓ Samsung SW Center, (July 2013 ~ present)
 - ✓ IBM Korea (Sept. 2014 ~ present)

- **AWARDS**

- *Best Development Award* of the year of 1983 for "Computerized Color Radar System", awarded by the President of Korea.
- *Outstanding Paper Award* in the 8th Int'l Conference on Distributed Computing Systems, June 1988
- *Best Paper Award* in 1992 Supercomputing, Nov. 1992
- Elected as a *Lecturer* of ACM Lectureship Series, Aug. 1993
- *Best Paper Award* in the Spring Conference of Korean Society for Internet Information, May 2001.

- *Excellence award* for the development of intelligent agent platform, Korea Software Technology Association, Nov. 2010.
- *Best Paper Award* in 2012 IEEE Int'l Conf. on Computer, Information and Telecommunication Systems (CITS).
- *Best Paper Award* in 2014 The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC)

• **ACTIVITIES**

- *Panel member of NASA Center of Excellence in Space Data and Information Science* (1993 - 1995)
- *Senior Member of IEEE Computer Society and listed in Who's who America* (1996 – Present)
- *General Chair of CyberC 2010*
- *Editor of Journal of Pervasive Mobile Computing, Elsevier, (2010 – Present)*
- *General Chair of 2009 Int'l Conf. Ubiquitous Computing Systems*
- *Editor-in-Chief of Journal of Information Processing Systems (2007-2009)*
- *Keynote speaker of 2009 2nd Int'l Conf. on Intelligent Computation Technology and Automation*
- *General Chair of ACM UbiComp 2008*
- *Program Chair of 2007 Int'l Conf. Ubiquitous Computing Systems*
- *Program Chair of IEEE SEUS 2005*
- *Steering Committee member of IEEE PRDC (2000 – Present)*
- *Program Chair of 2003 ISCTA PDCS*
- *General Chair of 2002 IEEE PRDC*
- *Program Committee and Organizing Committee member of Int'l Symposiums (1990 - Present)*
 - ✓ Int'l Conf. on Distributed Computing Systems (ICDCS)
 - ✓ Int'l Performance, Computing, and Communications Conf. (IPCCC)
 - ✓ Int'l IEEE Pacific Rim Symp. on Dependable Computing (PRDC) (Will host the conference in Korea in 2001 as a General Chair)
 - ✓ Int'l Conf. on Computer Communications and Networks (ICCCN)
 - ✓ Int'l Workshop in Fault-tolerant Embedded Systems (IWFES)
 - ✓ Int'l Conf. on Applied Computing (IAC)
 - ✓ IEEE PWN, PECCS, ICCCN 2007/2008, SRDS 2006, SUTC 2008, Euro-SSC 2007, AMOC 2007, MWN 2003, IASTED HCI-2007, ICOIN 2004, IPCCC 2002, PerComp 2007, ISORC 2005, WOWMOM 2002, DEPEND 2010, NPC 2009, SCAFT 2011, CPSCOM 2011, IASTED WOC 2007, ICSN 2007, MoMM 2011
- *Referee for technical journals and conferences (1990 – Present)*
- *General Secretary of Korean Computer Scientists and Engineers Association in America (1994 1999)*
- *President of North Texas Chapter of Korean Scientists and Engineers in America (1995 - 1996)*
- *Committee member for New Technology Development, Ministry of Commerce, Industry & Energy, Korea (2000 – 2007).*
- *Project Leader for Midrange Development Project, Ministry of Commerce, Industry & Energy, Korea (2000 – 2007).*
- *Vice President of Korea Information Processing Society, (2006 – 2008); Steering Committee Member (2009 – Present)*
- *Chairperson of Committee for Roadmap for RFID/USN, Ministry of Information and Communication (2006-2008)*
- *Chairperson of Committee for Roadmap for U-Computing, Ministry of Information and Communication (2007-2008)*
- *Board Member of Committee for Recommendation of Engineering Award, Korea Science Foundation, (2008)*
- *Committee Member of New Excellence Technology Award, Korea Industrial Technology Association, (2001-Present)*
- *Committee Member of Strategic Planning Committee, Ministry of Education & Science, (2007-2009)*

- *Committee Member* of Quality Assurance for National Defense, Defense Agency for Technology and Quality, (2009-2010)
- *Advisory Board Member* of Korea Institute of Science and Technology Information, (2009-Present)
- *Committee member* of e-Learning Contents Evaluation, Korea Research Institute for Vocational Education & Training, (2002-2008)
- *Committee Member* of 2010 IT Strategic Planning Committee, Korea Institute for Advancement of Technology, (2010)
- *Committee Member* of Seoul City Academia-Industry Collaboration Project Evaluation Committee, Seoul Development Institute, (2010-Present)
- *Committee Member* of Basic Research Evaluation Committee, Defense Acquisition Program Administration, (2010-Present)

• **SELECTED GRANTS**

- 'Performance Enhancement of Multistage Interconnection Networks,' UNT, \$10000, 1988 - 1989.
- 'High Performance Fault Tolerant Multiprocessor Architectures in VLSI/WSI,' NSF, \$60000, 1990 - 1992.
- 'Algorithm-Based Fault-Tolerance for Processor Arrays,' UTA, \$20000, 1991 - 1993.
- 'A Digital System for Data Acquisition in the Detectors at the Superconducting Super Collider,' Texas State, \$190000, 1992 - 1994.
- 'Real-time Scheduling for Multiprocessor Systems,' Texas State \$7000, 1994.
- 'Scheduling and Synchronization of Multimedia Data for VOD System,' LGCIT, \$6000, 1995.
- 'Scalable Distributed Parallel Logic Simulation for Large Deep Submicron VLSI Designs,' NSF, \$70,000, (Subcontract \$15000), 1995 - 1996.
- 'A Workshop on New Challenges and Directions for Systems Research,' NSF, \$10000, 1997 - 1998.
- 'Enhancement of SES/Workbench for Parallel and Distributed System,' SES, \$300000, 1998 - 1999.
- 'Research and Development of Network Computing Platform,' LGCIT, \$8000, 1998 - 1999.
- 'A Senior Design Project Lab.: Platform Independent Remote Data Acquisition and Control over the Internet,' NSF, \$24300, 1999 - 2002.
- 'Modeling and Evaluation of Mobile Systems,' Texas State \$10,500, 1999.
- 'Reliable and Fault-tolerant Distributed System for Mobile Environment,' Ministry of Information and Communications, ₩50,000,000, 1999 - 2000.
- 'Scalable Membership Service for Group Communications,' ETRI, ₩50,000,000, 2000.
- 'SES/Workbench and Strategizer Implementation,' Hyperformix, \$1,600,000 (Software grant), 2000.
- 'Embedded OS-based Wireless Multimedia Access Module in Personal Network,' KOSEF, ₩30,000,000, 2000-2003
- 'Linux File System for Storage Area Network,' Webbaw, ₩15,000,000, 2001.
- 'Development of Optical Switch for Storage Area Network,' Gyunggido, ₩20,000,000, 2001.
- 'Specialization Project,' SKKU, ₩600,000,000, 2002-2005
- 'Curriculum Renovation of IT Department,' Ministry of Information and Communications, ₩300,000,000, 2003-2005 (participant).
- 'Vulnerability Analysis of Distributed Storage and Detection of Attack,' KISA, ₩24,000,000, 2003-2004
- 'Performance Optimization and Development of Performance Evaluation Tool for Internet Link,' Gyunggido, ₩20,000,000, 2003.
- 'Actie Storage Clustering File System,' Webbaw, ₩25,000,000, 2003.
- 'Network Storage System for High Availability and High Survivability,' KISA, ₩32,333,000, 2003-2004.

- 'Storage System for Channel-based Input/Output,' Korea Electronics Technology Institute, ₩200,000,000, 2002-2006.
- 'Roadmap Development of Contents Storage/ Marketing/ Management,' Korea Creative Contents Agency, ₩20,000,000, 2002-2003
- 'Development of E-commerce System in wired/wireless Environment,' Ministry of Education, Korea, ₩600,000,000, 2003-2005.
- 'Development of community computing middleware for autonomous context-awareness,' The Ministry of information and Communication, ₩6,000,000,000, 2003-2008.
- 'Development of community computing middleware for autonomous context-awareness,' USA, ₩80,000,000, 2004-2005.
- 'Development of ubiquitous learning system using autonomous computing technology based on context-awareness,' Korea science foundation, ₩120,000,000, 2006-2009.
- 'Research on management technology of context information for USN application service,' ETRI, ₩140,000,000, 2006-2009.
- 'Research of Agent model for processing USN context information,' ETRI, ₩40,000,000, 2006-2007.
- 'Research and Development of Digital Product Memory,' Siemens, Germany, ₩60,000,000, 2007-2008.
- 'Context-aware and intelligent management technology development,' The Ministry of Information and Communication, ₩70,000,000, 2007-2008.
- 'Development of Mobile IP based Broadcast/Multicast protocol,' Samsung, ₩70,000,000, 2007-2008.
- 'Development of large-scale file processing system applying distributed file processing system based on cloud computing,' The Small and Medium Business Administration, ₩320,000,000, 2008-2010.
- 'Agent-based Intelligent Community Computing Middleware Technology Development,' IITA, ₩537,000,000, 2008-2009
- 'Development of agent technology for providing customized land information,' ETRI, ₩30,000,000, 2008-2009.
- 'Development of Agent Technology for personalized Homeland information,' ETRI, ₩30,000,000, 2008-2009.
- 'Research on extended specification of CC/PP for expansion, processing engine, embedded RFID middleware and ALE standard specifications,' The Ministry of Commerce, Industry and Energy, ₩100,000,000, 2008-2010.
- 'Research and Development on U-City Infrastructure Standard System,' Korea Institute of Construction & Transportation Technology Evaluation and Planning, ₩13,370,165,000, 2008-2010.
- 'Development of the USN based Convergence Service,' Korea Evaluation Institute of Industrial Technology, ₩2,000,000,000, 2009-2012.
- 'Research on Intelligent u-service Community-based Convergence Service Control,' ETRI, ₩70,000,000, 2009-2010
- 'Research on USN-based intelligent context-aware technology,' KIITECH, ₩150,000,000, 2009-2010
- 'Development of the technology for open semantic USN service platform,' Electronics and Telecommunications Research Institute, ₩30,000,000, 2011-2012.

- 'Development of the technology for smart phone-based mobile social network service (SNS) framework,' Ministry of Knowledge Economy, ₩40,000,000, 2011-2012.
- 'Multi-agent architecture for a distributed logistics simulation,' Agency for Defense Development, ₩150,000,000, 2011-2013.
- 'Wireless Measurement System for the Safety of Petroleum/Gas/Steel Plant,' Small Business Agency, ₩100,000,000, 2012-2014.
- 'Development of Intelligent Mashup Technology based on Semantic Sensor Web Utilizing Context Information,' Korea Research Foundation, ₩150,000,000, 2012-2015.
- 'Modeling of streaming large-scale linked data and big data processing technology,' Korea Communication Agency, ₩1,200,000,000, 2013-2016.
- 'Cloud computing platform based on SSD,' Samsung Electronics, ₩500,000,000, 2014-2017.
- 'Research on algorithm of FastData analysis for the hierarchical data stream processing environment,' ETRI, ₩35,000,000, 2015
- 'Development of inference mechanism for intelligent middleware,' UNITEF, Korea, ₩24,430,000, 2016
- 'Research on edge computing via collective intelligence of hyper-connection IoT nodes,' Korea Communication Agency, ₩2,550,000,000, 2016-2020
- 'Research on WSN Technology based on SDN Supporting Real-time Stream Data Processing and Multi-connectivity,' Korea Research Foundation, ₩500,000,000, 2017-2020.

- **UNIVERSITY SERVICES**

- Undergraduate advisor (at UTA)
- Faculty recruit committee member (at UTA)
- Research enhancement committee member (at UTA)
- Chairperson of Committee of Academia-Industry Faculty Association (at SKKU)
- Department Chair of Computer Engineering (at SKKU)
- Director of Ubiquitous Technology computing Research Institute (at SKKU)

PUBLICATION LIST

A. REFERRED JOURNALS

- A Novel Flow Management Scheme for SDN Switch of Multiple Flow Tables based on Flow Popularity, Cheng Wang, Kyung Tae Kim, Hee Yong Youn, accepted in Frontiers of Computer Science, 2019
- Management of Flow Table of SDN for Proactive Eviction Using Fuzzy Logic, Gan Huang, Hee Yong Youn, Journal of Information Science and Engineering, accepted in 2019
- Adaptive packet scheduling in IoT environment based on Q-learning, Donghyun Kim, Taeho Lee, Sejun Kim, Byungjun Lee, Hee Yong Youn, Journal of Ambient Intelligence and Humanized Computing, Vol 10, issue 58, p.1-11, 20190618
- Entry Aggregation and Early Match using Hidden Markov Model of Flow Table in SDN, Cheng Wang and Hee Yong Youn, Sensors, Vol 19, issue 10, p.1-20, 20190521

- Reduction of Training Data Using Parallel Hyperplane for Support Vector Machine, Pardis Birzhandi, Kyung Tae Kim, Byungjun Lee, Hee Yong Youn, Applied Artificial Intelligence, Vol 33, issue 6, p.497-516, 20190301
- CBCH (clustering-based convex hull) for reducing training time of support vector machine, Pardis Birzhandi, Hee Yong Youn, The Journal of Supercomputing, Vol 75, issue 266, p.1-19, 20190306
- A Novel Data Aggregation Scheme based on Self-Organized Map for WSN, Ihsan Ullah, Hee Yong Youn, The Journal of Supercomputing, Vol 75, issue 266, p.1-22, 20190124
- Dynamic Load Balancing of Software-Defined Networking Based on Genetic-Ant Colony Optimization, Hai Xue, KyungTae Kim, Hee Yong Youn, sensors, Vol 19, issue 2, p.1-17, 2019011
- Yi Li Wang and Hee Young Youn, "Feature Weighting Based on Inter-Category and Intra-Category Strength for Twitter Sentiment Analysis", Applied Sciences, pp.1-18, Dec. 2018
- Hai Xue, Kyung Tae Kim, Hee Yong Youn, "Packet Scheduling for Multiple-Switch Software-Defined Networking in Edge Computing Environment." Wireless Communications and Mobile Computing, pp.1-11, Nov. 2018.
- Yi Li Wang, Kyung Tae Kim, Byung Jun Lee, Hee Yong Youn, "Word clustering based on POS feature for efficient twitter sentiment analysis." Wireless Personal Communications, pp.1-19, Jun. 2018.
- Ihsan Ullah and Hee Yong Youn, "Statistical Multipath Queue-Wise Preemption Routing for ZigBee-Based WSN." Human-centric Computing and Information Sciences, pp.1-15, April. 2018.
- Yi Li Wang, Kyung Tae Kim, Byungjun Lee & Hee Yong Youn, "A novel buffer management scheme based on article swarm optimization for SSD", The Journal of Supercomputing, pp.1-19, Aug. 2017.
- Ruchi Sachan, Zahid Muhammad, Jaehoon (Paul) Jeong, Chang Wook Ahn, and Hee Yong Youn, "MABC: Power-Based Location Planning with a Modified ABC Algorithm for 5G Networks," Discrete Dynamics in Nature and Society, Vol. 2017, pp.1-13, July, 2017.
- Junseok Song, Kyung Tae Kim, Byungjun Lee, Sangyoung Kim and Hee Yong Youn, "A novel classification approach based on Naïve Bayes for Twitter sentiment analysis", KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS , Vol. 11, No.6, pp.2996-3011, June. 2017.
- Kyung Tae Kim and Hee Yong Youn, "Clustering of Nodes in Layered-Tree Topology for Wireless Sensor Networks", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, No.1, pp.252-260, Jan. 2017.
- Kyung Tae Kim and Hee Yong Youn, "A Dynamic Level-based Routing Protocol for Energy Efficiency in Wireless Sensor Networks", Journal of Internet Technology, Vol. 18, No.1, pp.11-21, Jan. 2017.
- Jung June Lee, Kyung Tae Kim and Hee Yong Youn, "Enhancement of congestion control of Constrained Application Protocol/Congestion Control/Advanced for Internet of Things environment", International Journal of Distributed Sensor Networks, Vol.12, pp.1-13, Nov. 2016.
- Xianda Chen, Kyung Tae Kim, Hee Yong Youn, "Integration of Markov Random Field with Markov Chain for Efficient Event Detection using Wireless Sensor Network", Computer Networks, Vol.108, pp.108-119, Oct. 2016.

- Tien-Khoi PHAN, HaRim JUNG, Hee Yong Youn, Ung-Mo KIM, "Efficient Evaluation of Maximizing Range Sum Queries in a Road Network", *IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS*, Vol. E99D, No. 5, pp.1326-1336, May. 2016.
- S.J. Choi, K.T. Kim and H.Y. Youn, "A novel key pre-distribution approach for high security and efficiency using LU-decomposition of matrix", *International Journal of Ad Hoc and Ubiquitous Computing*, Vol.23, pp.168-181, Jan. 2016.
- SHRIN AKTHER KHANAM AND HEE YONG YOUN, "A Web Service Discovery Scheme based on Structural and Semantic Similarity," *JOURNAL OF INFORMATION SCIENCE AND ENGINEERING*, pp.153-176, Jan. 2016.
- Kyung Tae Kim and Hee Yong Youn, "An Energy-Efficient and Scalable Routing Protocol for Distributed Wireless Sensor Networks," *Ad Hoc & Sensor Wireless Networks*, pp.192-212, Nov. 2015.
- Xianda Chen, Young Ho Suh, Seung Wan Kim and Hee Yong Youn, "Handover Management based on Asymmetric Nature of LTE-A HetNet using MCDM Algorithm," *Int'l Journal of Networked and Distributed Computing*, pp.250-260, Nov. 2015.
- Hee Jung Park, Kyung Tae Kim, Man Yun Kim and Hee Yong Youn, "Enhanced Hypervisor-based SSD Cache with Dynamic Cache Scanning and Allocation for Virtualized Cloud System," *Int'l Journal of Networked and Distributed Computing*, pp.224-233, Nov. 2015.
- Kyung Tae Kim, Man Youn Kim, Ji Hyeon Choi and Hee Yong Youn, "An Energy Efficient Clustering Algorithm for Maximizing the Lifetime of Wireless Sensor Network," *Int'l Journal of Networked and Distributed Computing*, pp.214-223, Nov. 2015.
- HaRim Jung, MoonBae Song, Hee Yong Youn and Ung Mo Kim, "Evaluation of Content-Matched Range Monitoring Queries over Moving Objects in Mobile Computing Environments," *Sensors*, pp.24143-24177, Sept. 2015.
- Nayoung Park, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn, "Effective Management of ReRAM-based Hybrid SSD for Multiple Node HDFS," *Int'l Journal of Networked and Distributed Computing*, pp.1-13, Aug. 2015.
- Xianda Chen, Kyung Tae Kim, Byungjun Lee and Hee Yong Youn, "DIHAT_Differential Integrator Handover Algorithm with TTT window for LTE-based systems," *EURASIP Journal on Wireless Communications and Networking*, pp.1-13, Oct. 2014.
- Kyungtae Kim and Hee Yong Youn, "A Stochastic and Optimized Energy Efficient Clustering Protocol for Wireless Sensor Networks," *Int'l Journal of Distributed Sensor Networks*, pp.1-12, March. 2014.
- Seungwok Han and Hee Yong Youn, "REFLECTING THE PERSPECTIVES OF MULTIPLE AGENTS IN DISTRIBUTED REASONING FOR CONTEXT-AWARE SERVICE," *Int'l Journal of Computational Intelligence Systems*, pp.700-711, May. 2013.
- Kyungtae Kim and Hee Yong Youn, "An Energy-Efficient Mac protocol Employing Dynamic Threshold for Wireless Sensor Network," *Int'l Journal of Distributed Sensor Network*, Vol. 2012, pp. 1 – 12, Sept. 2012.
- Seungwok Han and Hee Yong Youn, "Modeling and Analysis of Time-Critical Context-Aware Service Using Extended Interval Timed Colored Petri Net," *IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS-PART A: SYSTEMS AND HUMANS*, Vol. 99, pp. 1~11, Oct. 2011.

- SeokJin Im, Hee Yong Youn, Jintak Choi, and Jinsong Ouyang, ``A Novel Air Indexing Scheme for Window Query in Non-Flat Wireless Spatial Data Broadcast,’’ *JOURNAL OF COMMUNICATIONS AND NETWORKS*, VOL. 13, NO. 4, pp. 400-407, Aug. 2011.
- Seungwok Han and Hee Yong Youn, ``Petri net-based context modeling for context-aware systems,’’ *Artificial Intelligence Review*, Vol. 37, No. 1, pp. 43~67, May 2011.
- Sung Chune Choi and Hee Yong Youn, ``Dynamic Hybrid Replication Effectively Combining Tree and Grid Topology,’’ *Journal of Supercomputing*, Vol. 59, No. 3, pp. 1289~1311, Dec. 2010.
- Seungwok Han, Hee Yong Youn, and Ohyoung Song, ``Efficient category-based service discovery on multi-agent platform,’’ *Information Systems Frontiers*, Vol. 12, Dec. 2010.
- Minho Jo, Hee Yong Youn, and Hsiao-Hwa Chen, ``Intelligent RFID Tag Detection Using Support Vector Machine,’’ *IEEE Transactions on Wireless Communication*, Vol. 8, No. 10, pp. 5050~5059, Oct. 2009.
- Minho Jo, Hee Yong Youn, Si-Ho Cha, and Hyunseung Choo, ``Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability,’’ *IEEE Sensors Journal*, Vol. 9, No. 2, pp. 112~119, Sept. 2009.
- SeokJin Im and Hee Yong Youn, ``A Cell-based Hybrid Indexing Scheme for Energy Conserving k Nearest Neighbor Search on Air,’’ *IEICE Transactions on Information*, Vol. E91-B 11, pp. 3799-3802, Nov. 2008.
- Minho Jo and Hee Yong Youn, ``Intelligent recognition of RFID tag position,’’ *IET Electronics Letters*, Vol. 44, No. 4, pp. 308-309, Feb. 2008.
- Ae Hee Park, So Hyun Park, and Hee Yong Youn, ``A Flexible and Scalable Agent Platform for Multi-Agent Systems,’’ *WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY*, Vol. 21, pp.1-6, Jan. 2007.
- Saehoon Kang, Younghee Lee, Dongman Lee, and Hee Yong Youn, ``A Landmark-based Scalable Semantic Resource Discovery Scheme,’’ *IEICE Transactions on Information and Systems '07*, Vol.E90-D, No.6, pp.986-989, June 2007.
- Stephen F. Jenks, Kane Kim, Yuqing Li, Sheng Liu, Liangchen Zheng, and Hee Yong Youn, ``A middleware model supporting time-triggered message-triggered objects for standard Linux systems,’’ *Real-Time Systems '07*, Vol.36, No.1-2, pp.75~99, July 2007.
- Si-Ho Cha, Jong-Eon Lee, Minho Jo, Hee Yong Youn, Seokjoong Kang, and Kuk-Hyun Cho, ``Policy-Based Management for Self-Managing Wireless Sensor Networks,’’ *IEICE Transactions on communications '07*, Vol.E90-B, No.11, pp.3024-3033, Nov. 2007.
- Wonyong Yoon, Dongman Lee, Hee Yong Youn, and Seungik Lee, ``A Combined Group/Tree Approach for Scalable Many-to-Many Reliable Multicast,’’ *Elsevier Computer Communications Journal*, Vol. 29, No. 18, pp. 3863-3876, Nov. 2006.
- Hyun Ko and Hee Yong Youn, ``Adaptive Bridging with Portable Interceptor for Efficient Integration of Reflective Middleware,’’ *Lecture Notes in Computer Science Vol.4159*, pp.669-678, Sept. 2006.
- Kyung Tae Kim, Hyunsoo Kim, and Hee Yong Youn, ``Optimized Clustering for Maximal Lifetime of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.4097*, pp.465-474, Aug. 2006.

- Hyung Su Lee, Byunghun Song, and Hee Yong Youn, ``A Study on the Indoor Real-Time Tracking System to Reduce the Interference Problem,’’ *Lecture Notes in Computer Science Vol.3994*, pp. 910-917, May 2006.
- Kyu Bong Cho, Sung Keun Song, Hee Yong Youn, and Gyung Leen Park, ``An Efficient and Reflective Event Filtering for Context-Awareness in Ubiquitous Computing,’’ *Lecture Notes in Computer Science Vol.3992*, pp.587-594, May 2006.
- Sung Keun Song, Hee Yong Youn, and Ungmo Kim, ``A New Reflective and Reliable Context-Oriented Event Service Architecture for Pervasive Computing,’’ *Lecture Notes in Computer Science Vol.3984*, pp.139-148, May 2006.
- Gyung-Leen Park, Hee Yong Youn, Junghoon Lee, Chul Soo Kim, Bongkyu Lee, Sang Joon Lee, Wang-Cheol Song, and Yung-Cheol Byun, ``Performance Evaluation of Parallel Systems Employing Roll-Forward Checkpoint Schemes,’’ *Lecture Notes in Computer Science Vol.3984*, pp. 185-191, May 2006.
- Sang Yong Park and Hee Yong Youn, ``Message Transport Interface for Efficient Communication Between Agent Framework and Event Service,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 1-10, May 2006.
- Hyunsoo Kim and Hee Yong Youn, ``Finding the Number of Clusters Minimizing Energy Consumption of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.3982*, pp.852-861, May 2006.
- Juryon Paik, Hee Yong Youn, and Ung Mo Kim, ``Extraction of Implicit Context Information in Ubiquitous Computing Environments,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 456-465, May 2006.
- Eung Ju Lee and Hee Yong Youn, ``Efficient Scheduling by Incorporating Bin Packing with Limited and Weighted Round Robin for Bluetooth,’’ *Lecture Notes in Computer Science Vol. 3983*, pp. 187-196, May 2006.
- Hyung Su Lee, Hee Yong Youn, and Hyedong Jung, ``Context-Aware Cross Layered Multimedia Streaming Based on Variable Packet Size Transmission,’’ *Lecture Notes in Computer Science Vol. 3981*, pp. 691-700, May 2006.
- Hyung Su Lee, Kyung Tae Kim, and Hee Yong Youn, ``A New Cluster Head Selection Scheme for Long Lifetime of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 519-528, May 2006.
- Thanh Hai Trinh and Hee Yong Youn, ``A New Energy Efficient Target Detection Scheme for Pervasive Computing,’’ *Lecture Notes in Computer Science Vol.3994*, pp. 1-8, May 2006.
- Youn Chul Jung, Hee Yong Youn, and Eun Seok Lee, ``Boundary-Based Time Partitioning with Flattened R-Tree for Indexing Ubiquitous Objects,’’ *Lecture Notes in Computer Science 3794*, pp.804-814, Dec. 2005.
- Sung Jin Choi and Hee Yong Youn, ``An Efficient Key Pre-distribution Scheme for Secure Distributed Sensor Networks,’’ *Lecture Notes in Computer Science 3823*, pp. 1088-1097, Dec. 2005.
- Kyung Tae Kim and Hee Yong Youn, ``Energy-Driven Adaptive Clustering Hierarchy (EDACH) for Wireless Sensor Networks,’’ *Lecture Notes in Computer Science 3823*, pp. 1098-1107, Dec. 2005.

- Chang Won Park, Sung Jin Choi, and Hee Yong Youn, ``A Noble Key Pre-distribution Scheme with LU Matrix for Secure Wireless Sensor Networks,’’ *Lecture Notes in Computer Science* 3802, pp. 494-499, Dec. 2005.
- Hyunsang Youn, Sungwook Hwang, Heeyong Youn, and Eunseok Lee, ``Support Tool for Multi-agent Development,’’ *Lecture Notes in Computer Science* 3578, pp. 470-477, July 2005.
- SeungHwa Lee, Heeyong Youn, and EunSeok Lee, ``Context Adaptive Self-configuration System Based on Multi-agent,’’ *Lecture Notes in Computer Science* 3554, pp. 268-277, July 2005.
- Hyo Cheol Ahn and Hee Yong Youn, ``A Fuzzy Grouping-Based Load Balancing for Distributed Object Computing Systems,’’ *Lecture Notes in Computer Science* 3483, pp. 916-925, June 2005.
- Sung Chune Choi and Hee Yong Youn, ``Task Mapping Algorithm for Heterogeneous Computing System Allowing High Throughput and Load Balancing,’’ *Lecture Notes in Computer Science* 3516, pp. 1000-1003, May 2005.
- Hyunsoo Kim and Hee Yong Youn, ``Prompt Detection of Changepoint in the Operation of Networked Systems,’’ *Lecture Notes in Computer Science* 3516, pp. 1125-1129, May 2005.
- Youn Chul Jung, Hee Yong Youn, and Ungmo Kim, ``Efficient Indexing of Moving Objects Using Time-Based Partitioning with R-Tree,’’ *Lecture Notes in Computer Science* 3515, pp. 568-575, May 2005.
- Soo Myoung Lee, Hee Yong Youn, and We Duke Cho, ``Adaptive Fault Monitoring in Fault Tolerant CORBA,’’ *Lecture Notes in Computer Science* 3514, pp. 576-584, May 2005.
- SiHun Lee, JeeHyong Lee, KeonMyung Lee, and Hee Yong Youn, ``Fuzzy Category and Fuzzy Interest for Web User Understanding,’’ *Lecture Notes in Computer Science* 3483, pp. 1149-1158, May 2005.
- Yeo Bong Yoon and Hee Yong Youn, ``A New Service Discovery Scheme Adapting to User Behavior for Ubiquitous Computing,’’ *Lecture Notes in Computer Science* 3482, pp. 19-28, May 2005.
- Juryon Paik, Hee Yong Youn, and Ungmo Kim, ``A New Method for Mining Association Rules from a Collection of XML Documents,’’ *Lecture Notes in Computer Science* 3481, pp. 936-945, May 2005.
- Hea Suk Jo and Hee Yong Youn, ``A Secure User Authentication Protocol Based on One-Time-Password for Home Network,’’ *Lecture Notes in Computer Science* 3480, pp. 519-528, May 2005.
- HyeHwan Ahn and HeeYong Youn, ``Combining Next Fit of Bin Packing with Deficit Round Robin for Efficient Slot Scheduling in Bluetooth,’’ *Journal of Pervasive Computing and Communications*, Vol. 2, No. 2, pp. 125 – 134, May 2005.
- Gyung-Leen Park and Hee Yong Youn, ``A New Approach for High Performance Computing Systems with Various Checkpointing Schemes,’’ *The Journal of Supercomputing*, Vol. 33, No. 1, pp. 65-78, April 2005.
- W. Y. Yoon, D. Lee, H. Y. Youn, ``On the scalability of many-to-many reliable multicast sessions,’’ *Concurrency and Computation: Practice & Experience - Systems Performance Evaluation*, Vol. 16, No. 13, pp. 1353-1363, Nov. 2004.
- Sang-Ho Lee, Dong-Ryeol Shin, and Hee Yong Youn, ``Weighted Fair Scheduling Algorithm for QoS of Input-Queued Switches,’’ *IFIP International Conference on Network and Parallel Computing, (LNCS 3222(IFIP))*, pp. 366-373, Oct. 2004.

- Ho-Jin Shin, Dong-Ryeol Shin, and Hee-Yong Youn, ``An Efficient Backoff Scheme for IEEE 802.11 DCF, Conference on Personal Wireless Communications (*LNCS 3260*(IFIP), pp. 652-657, Sept. 2004.
- Sung Keun Song, Hee Yong Youn, Gyung-Leen Park, and Kang Soo Tae, ``On the Availability of Information Dispersal Scheme for Distributed Storage Systems,’’ ICCS 2004, *LNCS 3036*, pp. 453-457, June 2004.
- Sung Jin Choi, Hee Yong Youn, and Hyung Soo Lee, ``On Highly Secure and Available Data Storage Systems, ICCS 2004, *LNCS 3037*, pp. 121-129, June 2004.
- Kang Soo Tae, Hee Yong Youn, and Gyung-Leen Park, ``On Negation-Based Conscious Agent,’’ ICCSA 2004, *LNCS 3043*, pp. 114-121, May 2004.
- Sung Jin Choi and Hee Yong Youn, ``A Novel Data Encryption and Distribution Approach for High Security and Availability Using LU Decomposition, ICCSA 2004, *LNCS 3046*, pp. 637-646, May 2004.
- Sung Keun Song, Hee Yong Youn, and Chang Won Park, ``A Two-Public Key Scheme Omitting Collision Problem in Digital Signature,’’ ICCSA 2004, *LNCS 3046*, pp. 627-636, May 2004.
- Hea Suk Jo and Hee Yong Youn, ``A New Synchronization Protocol for Authentication in Wireless LAN Environment,’’ ICCSA 2004, *LNCS 3043*, pp. 711-721, May 2004.
- Sung Keun Song, Hee Yong Youn, and Kang Shin Lee, ``A New Digital Signature and Certificate Architecture with Shortest Certification Path,’’ *LNCS 3042*, pp. 1-12, May 2004.
- Dongman Lee, Dukyun Nam, Hee Yong Youn, Chansu Yu, ``OCI-based Group Communication Support in CORBA Parallel and Distributed Systems,’’ *IEEE Transactions on Computers*, Vol. 14, No. 11, pp. 1126 – 1139, Nov. 2003.
- Chansu Yu, Ben Lee, and Hee Yong Youn, ``Energy efficient routing protocols for mobile ad hoc networks,’’ *Wireless Communications & Mobile Computing*, Vol. 3, No. 8, pp. 959-973, Nov. 2003.
- Jong-Koo Park and Hee Yong Youn, ``Dynamic anti-windup based control method for state constrained systems,’’ *Automatica*, Vol. 39, No. 11, pp. 1915-1922, Nov. 2003.
- Haitao Lin, Sajal K. Das, and Hee Yong Youn, ``An Adaptive Radio Link Protocol to Improve TCP Performance over Correlated Fading Wireless Channels,’’ International Federation for Information Processing, *LNCS 2775*, pp. 222-236, Sept. 2003.
- Daewoo Chung, Hyunseung Choo, Hee Yong Youn, Seong-Moo Yoo, ``Efficient Location Traffic Management with Multiple Virtual Layers,’’ *Journal of Information Science and Engineering*, Vol. 19, No. 5, pp. 787-808, Sept. 2003.
- Sung Keun Song, Hee Yong Youn, Jong Koo Park, ``Deciding Optimal Information Dispersal for Parallel Computing with Failures,’’ Parallel Architectures and Compilation Techniques, *LNCS 2763*, pp. 332-335, Aug. 2003.
- Moonsoo Kang, Chansu Yu, HeeYong Youn, Ben Lee, Myungchul Kim, ``Isomorphic Strategy for Processor Allocation in k-ary n-cube Systems,’’ *IEEE Transactions on Computers*, Vol. 52, No. 5, pp. 645-657, May 2003.

- A.S.Rodionov, H.Choo, H.Y. Youn, V.V. Shakhov, ``Discord Detection for a Process with a Predefined Interval of Observations,’’ *International Journal of Computer Mathematics*, Vol. 80, No. 2, pp. 181-191, Feb. 2003.
- Sung Chune Choi, Hee Yong Youn, Jong Ku Park, and Joong Sup Choi, ``A Replication Protocol with Composite Topology for High Adaptability,’’ ICCSA, *LNCS* 2667, pp. 227-237, Jan 2003.
- Sung Chune Choi, Hee Yong Youn, Jong Ku Park, Joong Sup Choi, ``Symmetric Tree Replication Protocol for Efficient Distributed Storage System,’’ ICCS 2003, *LNCS* 2659, pp. 474-484, Jan. 2003.
- Sung Jin Choi, Hee Yong Youn, Bo Kyoung Lee, ``An Efficient Dispersal and Encryption Scheme for Secure Distributed Information Storage,’’ ICCS 2003, *LNCS* 2660, pp. 958-967, Jan. 2003.
- H. Choo, H.Y. Youn, and M.Y. Chung, ``A Study on Detecting Unexpected Demands of Mobile Users in Wireless Networking Environment,’’ in *Journal of Simulation*, Vol. 11, No. 4, pp. 33-41, Dec. 2002.
- H.Choo, H.Y.Youn, D.Chung, ``Modified Virtual Layer Scheme for Location Management,’’ *LNCS* 2343, pp. 712-724, Oct. 2002.
- H.Shin, D.Lee, S.J.Hyun, Y.Lee, M.Kim, H.Y.Youn, ``Extensions to DNS for Supporting internationalized Domain Names,’’ *LNCS* 2344, pp. 791-801, Oct 2002.
-
- Y.J. Lee, H. Choo, and H.Y. Youn, ``Quick Semi-Buddy Scheme for Dynamic Storage Allocation in Real-time Systems,’’ in *Journal of Simulation*, Vol. 11, No. 3, pp. 23-34, Sept. 2002.
- H.Y. Youn, H.S. Kim, H. Choo, and S. Das, ``Rerouting for Handoff based on the Distance in Wireless ATM Networks,’’ in *Computer Communications*, 25, pp. 1162-1171, Aug. 2002.
- A.S. Rodionov, H. Choo, and H.Y. Youn, ``Process Simulation Using Randomized Markov Chain and Truncated Marginal Distribution,’’ *The Journal of Supercomputing*, 22, pp. 69-85, May 2002.
- V.V. Shakhov, H.Choo, H.Y. Youn, ``On Detecting Unsteady Demand in Mobile Networking Environment,’’ ICCS 2002 - *LNCS* 2331, pp. 1108-1117, April 2002.
- Y. Hong, H. Choo, H.Y. Youn, ``Modeling and Performance Evaluation of MIN-based Switch Adopting USB Method,’’ *Journal of Simulation*, Vol. 11, No. 1, pp. 71-81, March 2002.
- A.S. Rodionov, H. Choo, H.Y. Youn, and T.M. Chung, ``Generation of Pseudo Random Processes with Given Marginal Distribution and Autocorrelation Function,’’ *Int'l Journal of Computer Mathematics*, Vol. 78, pp. 521-537, Jan. 2002.
-
- D. Lee, W. Yoon, and H.Y. Youn, ``Enhancing Scalability of Tree-Based Reliable Multicast by Approximating Logical Tree to Multicast Routing Tree,’’ *IEICE Trans. on Communications*, Vol. E84-B, No. 10, pp. 2850-2862, Oct. 2001.
- H. Choo, H.Y. Youn, and G.-L. Park, ``Dynamic Task Scheduling for 3D Torus Multicomputer Systems,’’ in *KIPS Trans. A*, Vol. 8-A, No. 3, pp. 245-252, Sept. 2001.
- Sangman Moh et al., ``Four-Ary Tree-Based Barrier Synchronization for 2D Meshes without Nonmember Involvement,’’ *IEEE Trans. On Computers*, Vol. 50, No. 8, pp. 811- 823, Aug. 2001.
- D. Chung, H. Choo, and H.Y. Youn, and Dong Ryeol Shin, ``Reduction of Location Update Traffic Using Virtual Layer in PCS,’’ *Lecture Notes in Computer Science 2105*(1st Int'l Conf. Human Society and the Internet), pp. 398-410, July 2001.

- H.Y. Youn, H.S. Kim, H. Choo, and K. Kim, "A New Incremental Rerouting for handoff in Wireless ATM Networks," *Lecture Notes in Computer Science* 2105(1st Int'l Conf. Human Society and the Internet), pp. 368-382, July 2001.
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," *Journal of Simulation*, Vol 10, No. 2, pp. 47-59, June 2001.
- A.S. Rodionov, H. Choo, H.Y. Youn, T.M. Chung, and K. Park, "Efficient Random Process Generation for Reliable Simulation of Complex Systems," *Lecture Notes in Computer Science* 2074 (Int'l Conf. on Computational Science), pp. 912-921, May 2001.
- S.M. Yoo, H.Y. Youn, and H. Choo, "Dynamic Scheduling and Allocation in Two-Dimensional Mesh-Connected Multicomputers for Real-Time Tasks," in *IEICE Transaction on Information and Systems*, Vol. E84-D, No. 5, pp. 613-622, May 2001.
- H.Y. Youn et al., "An Efficient Algorithm-Based Fault Tolerance Design Using the Weighted Data-Check Relationship," in *IEEE Trans. on Computers*, Vol. 50, No. 4, pp. 371-383, April 2001.
- K. Kang, D. Lee, H.Y. Youn, and K. Chon, "NLM: Network-based Layered Multicast for Traffic Control of Heterogeneous Network," in *Computer Communications*, Vol. 24, pp. 525-538, March 2001.
- S. Moh, C. Yu, H.Y. Youn, D. Han, B. Lee, D. Lee, "A Fast Tree-Based Barrier Synchronization on Switch-Based Irregular Network," *Lecture Notes in Computer Science* 1970 (*High Performance Computing – 2000*), pp. 273-282, Dec. 2000.
- S.M. Yoo, H. Choo, H.Y. Youn, C. Yu, and Y.H. Lee, "On task relocation in 2D meshes," in *Journal of Parallel and Distributed Computing*, Vol. 60, pp. 616-638, June 2000.
- H. Choo, S.M. Yoo, and H.Y. Youn, "Processor scheduling and allocation for 3D Torus Multicomputer Systems," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 11, No. 5, pp. 475-484, May 2000.
- H.Y. Youn, "Data Management for Mobile Computing," *Korean-American Scientist and Engineer Association Journal*, Vol. 1, 1999, pp. 34-42, May 1999.
- H.Y. Youn and H. Choo, "Performance Enhancement of Multistage Interconnection Networks with Unit Step Buffering," in *IEEE Trans. on Communications*, Vol. 47, No. 4, pp. 618-630, April 1999.
- S.M. Yoo, H.Y. Youn, and B. Shirazi, "On Dynamic Processor Allocation for 2D Mesh Multicomputer Systems," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 8, No. 9, pp. 934-942, Sept. 1997.
-
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," to appear in *Journal of Information Science and Engineering*
- H.Y. Youn and J.Y. Lee, "Efficient Dictionary Machine Using Hexagonal Processor Arrays," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 7, No. 3, pp. 266-273, March 1996.
- Shirazi, H.Y. Youn, and D.M. Lorts, "Evaluation of Static Scheduling Heuristics for Real-Time Multiprocessing," in *Parallel Processing Letters*, Vol. 5, No. 4, pp. 599-610, 1995.
-
- C.G. Oh and H.Y. Youn, and V.K. Raj, "An Efficient Algorithm-Based Concurrent Error Detection Design for FFT Networks," in *IEEE Trans. on Computers*, Vol. 44, No. 9, pp. 1157-1162, Sept. 1995.

- J.Y. Lee, H.Y. Youn, and A.D. Singh, "Adaptive Unanimous Voting(UV) for Distributed Self-Diagnosis," in *IEEE Trans. on Computers*, Vol. 44, No. 5, pp. 730-735, May 1995.
- H.Y. Youn and Y. Mun, "On Multistage Interconnection Networks with Small Clock Cycles," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 6, No. 1, pp. 86-92, Jan. 1995.
- Y. Mun and H.Y. Youn, "Performance Modeling and Evaluation of Circuit Switching Using Clos Networks," in *IEEE Trans. on Computers*, Vol. 43, No. 7, pp. 854-861, July 1994.
- C.G. Oh and H.Y. Youn, "On Concurrent Error Location and Correction of FFT Networks," in *IEEE Trans. on VLSI systems*, Vol. 2, No. 2, pp. 257-260, June 1994.
- Y. Mun and H.Y. Youn, "Performance Analysis of Finite Buffered Multistage Interconnection Networks," in *IEEE Trans. on Computers*, Vol. 43, No. 2, pp. 153-162, Feb. 1994.
- H.Y. Youn and C.C.-Y. Chen, "A Comprehensive Performance Evaluation of Crossbar Network," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 4, No. 5, pp 481-489, May 1993.
- A.D. Singh and H.Y. Youn, "A Fault Tolerant Binary Tree Architecture for VLSI with Short Links," in *IEEE Trans. on Computers*, vol. 40, pp. 882-890, July 1991.
- H.Y. Youn and A.D. Singh, "On Implementing Large Binary Tree Architectures in VLSI and WSI," in *IEEE Trans. on Computers*, Vol. 38, pp. 526-537, April 1989.

B. REFERRED INTERNATIONAL CONFERENCES

- Dynamically Adjusting the Stale Synchronous Parallel Model for Edge Computing, Sangu Lee, Taeho Lee, Yili Wang and Hee Yong Youn, Proceedings on the International Conference on Internet Computing (ICOMP), p.93-99, 201909
- Dynamic Sink Relocation with Fuzzy Logic for Wireless Sensor Network, Taeho Lee, Kyungtae Kim, Yili Wang, and Hee Yong Youn, Proceedings of the International Conference on Wireless Networks (ICWN), p.15-21, 201909
- Fast Detection of Abnormal Data in IIoT with Segmented Linear Regression, Sejun Kim, Ihsan Ullah, Taeho Lee, and Hee Yong Youn, Proceedings on the International Conference on Internet Computing (ICOMP), p.88-94, 201909
- Detection of Falls with Smartphone Using Machine Learning Technique, Xianyao Chen, Hai Xue, Minwoo Kim, Cheng Wang, Hee Yong Youn
- Load Balancing for Distributed SDN with Harmony Search, Sejun Kim, Sangyoung Kim Ebay, Byungjun Lee, KyungTae Kim, Hee Yong Youn, 2019 16th IEEE Annual Consumer Communications & Networking Conference (CCNC)
- Dae Hyeon Kim, Ye Jin Lee, Rhee Man Kil and Hee Yong Youn, "Deep Structure of Gaussian Kernel Function Networks for Predicting Daily Peak Power Demands", International Conference on Neural Information Processing (ICONIP 2018), Dec. 2018
- Seung Eon Yoo, Cheng Wang, Kyung Tae Kim, Se Jun Kim and Hee Yong Youn, "Supporting Node Connectivity with Dixon's Test for ZigBee-based WSN", The 9th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2018), Nov. 2018.

- Dong Hyun Kim, Tae Ho Lee, Se Jun Kim, Byung Jun Lee, Hee Yong Youn, "Adaptive Packet Scheduling in IoT Environment Based on Q-learning", The 9th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2018), Nov. 2018.
- Byung Hoo Song, Byungjun Lee, Kyung Tae Kim, and Hee Yong Youn, "Enhanced Query Processing Using Weighted Predicate Tree in Edge Computing Environment", 2017 IEEE Conference on Standards for Communications and Networking (CSCN), Oct. 2017.
- Sangyoung Kim, Sukdong Kim, Rhee Man Kil, Hee Yong Youn, "Cgroup-Aware Load Balancing in Heterogeneous Multi-Processor Scheduler", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Young Gyo Jung, Kyung Tae Kim, Byungjun Lee, Hee Yong Youn, "Enhanced Naive Bayes Classifier for Real-time Sentiment Analysis with SparkR", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Dongyoung Jung, Tae Yun Kwon, Kyung Tae Kim, Hee Yong Youn, "Enhanced Stream Control Transmission Protocol with Access Frequency Control", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Sung Min Chung, Kyung Tae Kim, Junseok Song, Hee Yong Youn, "Enhancing Node Connectivity by Utilizing RSSI for ZigBee-based WSN", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Jung June Lee, Sung Min Chung, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Round Trip Time based Adaptive Congestion Control with CoAP for Sensor Network", 2016 International Conference on Distributed Computing in Sensor Systems, May 2016.
- Young Ho Suh, Kyung Tae Kim, Dong Ryeol Shin and Hee Yong Youn "Traffic-Aware Energy Efficient Routing (TEER) Using Multi-Criteria Decision Making for Wireless Sensor Network", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Seung Wan Kim, Young Gyo Jung, Dong Ryeol Shin and Hee Yong Youn "Dynamic Queue Management Approach for Data Integrity and Delay Differentiated Service in WSN", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Sanghyun Yoo, Yonjoong Ryou, Kyung Tae Kim and Hee Yong Youn "Block Replacement based on Access Locality with SolidStateDrive", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- JiHyeon Choi, Byungjun Lee, DongYoung Jung and Hee Yong Youn "An SSD-based Accelerator Using Partitioned Bloom Filter for Directory Parsing", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- YiLi Wang, ByungJun Lee, JungJune Lee and HeeYong Youn "A PSO-based Buffer Management Scheme for Improving Hit Ratio of Solid State Drive", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Hee Jung Park, Kyung Tae Kim, Byungjun Lee, Rhee Man Kil and Hee Yong Youn "Improving Hypervisor-based SSD Caching with Logically Partitioned Blocks and Scanning in Cloud Environment", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.

- Xianda Chen, Young Ho Suh, Seung Wan Kim and Hee Yong Youn "Reducing Connection Failure in Mobility Management for LTE HetNet using MCDM Algorithm", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Yonjoong Ryou, Byungjun Lee, Sanghyun Yoo and Hee Yong Youn "Considering Block Popularity in Disk Cache Replacement for Enhancing Hit Ratio with Solid State Drive", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Nayoung Park, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Cold Data Eviction Using Node Congestion Probability for HDFS based on Hybrid SSD", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Kyung Tae Kim, Man Youn Kim, Ji Hyeon Choi and Hee Yong Youn "An Energy Efficient and Optimal Randomized Clustering for Wireless Sensor Networks", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- ManYun Kim, Kyung Hwan Oh, Hee Yong Youn and Sang Won Lee "Enhanced Dual Bloom Filter based on SSD for Efficient Directory Parsing in Cloud Storage System", International conference on Computing, Networking & Communications 2015 (ICNC 2015), Feb. 2015.
- Xianfeng Pei, Xianda Chen, Kyung Tae Kim, Seung Wan Kim and Hee Yong Youn "Spatio-Temporal Event Detection a Hierarchy based Approach for Wireless Sensor Network", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Byungjun Lee, Kyung Hwan Oh, Hee Jung Park, Ung Mo Kim and Hee Yong Youn "Resource Reallocation of Virtual Machine in Cloud Computing with MCDM Algorithm", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Kyung Tae Kim, Woo Sik Seol, Ung Mo Kim and Hee Yong Youn "Latent Semantic Analysis for Mining Rules in Big Data Environment", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Ihsan Ullah, Jihyeon Choi, Yonjoon Ryou, Man Yun Kim and Hee Yong Youn "Hadoop Preemptive Deadline Constraint Scheduler", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Xianda Chen, Min Jae Kim, Sang Hyun Yoo, Na Young Park and Hee Yong Youn "Efficient and Prompt Handover in LTE-based Systems by Predicting the Target eNodeBs", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Byungjun Lee, Ho Kuen Song, Youngho Suh, Kyung Hwan Oh and Hee Yong Youn "Energy-efficient Gossiping Protocol of WSN with Realtime Streaming Data", The 12th IEEE International Conference on Embedded Computing, Aug. 2014.
- Kyung Tae Kim, Jong Chang Park, Manyun Kim, Ung Mo Kim and Hee Yong Youn "A Spanning Tree based Data Collection for Real-Time Streaming Sensor Data", The 12th IEEE International Conference on Embedded Computing, Aug. 2014.

- Joon-hyuk Ryu, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Reduction of IPTV Channel Zapping Time by Utilizing the Key Input Latency", 2014 IEEE Consumer Communications & Networking Conferences, Jan. 2014.
- Jong Chang Park, Min Seok Choi, Byoung Joon Lee, Kyung Tae Kim, and Hee Yong Youn, "Distribute Sementic Service Discorvery for Manet", 2013 IEEE 10th International Conference on and 10th International Conference on Autonomic and Trusted Computing (UIC/ATC), Dec. 2013.
- Zhong Yuan Li, Jong Chang Park, Byungjun Lee, and Hee Yong Youn, "Situation Awareness Based on Dempster-Shafer Theory and Semantic Similarity", 2013 IEEE 16th International Conference on Computational Science and Engineering, Dec. 2013.
- Kyung Hwan Oh, Hyung Ku Kang, Jong Chang Park, and Hee Yong Youn, "WAGE: Weighting with AHP, Grey numbers, and Entropy for Multiple-Criteria Group Decision Making Problem", 2013 2nd International Conference on Big Data Science and Engineering, Dec. 2013.
- Woo Sik Seol, Hwi Woon Jeong, Byungjun Lee, and Hee Yong Youn, "Reduction of Association Rules for Big Data Sets in Socially-Aware Computing", 2013 2nd International Conference on Big Data Science and Engineering, Dec. 2013.
- Shrin Akther Khanam, Kyung Hwan Oh, Woo Sik Seol, and Hee Yong Youn, "A Novel Semantic Web Service Discovery Scheme Using Bipartite Graph", High Performance Computing and Communications & 2013 IEEE International Conference on Embedded and Ubiquitous Computing (HPCC_EUC), Nov. 2013.
- Yiwen Shen, Kyung Tae Kim, Jong Chang Park and Hee Yong Youn, "Object Tracking based on the Prediction of Trajectory in Wireless Sensor Networks", High Performance Computing and Communications & 2013 IEEE International Conference on Embedded and Ubiquitous Computing (HPCC_EUC), Nov. 2013.
- Geon Yong Park, Heeseong Kim, Hwi Woon Jeong, and Hee Yong Youn, "A Novel Cluster Head Selection Method based on K-Means Algorithm for Energy Efficient Wireless Sensor Network", 2013 27th International Conference on Advanced Information Networking and Applications Workshops, 2013.
- Ho Kuen Song, Kwang Myung Kim, Kyung Tae Kim, Hee Yong Youn, "Application of Genetic Algorithm for Logistics Based on Multi-Agent System", 2013 International Conference on Information Networking, Jan. 2013.
- Zhu Xian Cui, Han Ku Yoo, Jun Yeol Choi, and Hee Yong Youn, "Multi-criteria Group Decision Making with Fuzzy Logic and Entropy based Weighting," ACM ICUIMC2011, Feb. 2011.
- Hyung Ku Kang, Dae Gun Kim, Hwi Woon Jeong, Geon Yong Park, and Hee Yong Youn, "A Novel Interval Grey Number and Entropy-based Solution for Multiple-Criteria Group Decision Making Problem," 2012 9th Int'l Conf. on Ubiquitous Intelligence & Computing, pp. 349-356, Sept. 2012.
- Young Joon Lee, Geon Yong Park, Ho Kuen Song, and Hee Yong Youn, "A Load Balancing Scheme for Distributed Simulation Based on Multi-agent System," 2012 IEEE 36th Annual Computer Software and Applications Conference Workshops (COMPSACW), pp. 613-618, July 2012.
- Back Sun Sim, Heeseong Kim, Kwang Myung Kim, and Hee Yong Youn, "Type-based context-aware service Recommender System for social network," 2012 IEEE Int'l Conf. on Computer, Information and Telecommunication Systems (CITS), pp. 1-5, May 2012.

- Hwi Woon Jeong, Jun Yeol Choi, Hyung Ku Kang, and Hee Yong Youn, "An Efficient Group-based Channel Scanning Scheme for Handover with IEEE 802.16e," IEEE AINA2012, pp. 639-644, March 2012.
- Heeseong Kim, Jun Yeol Choi, Kyu Sung Ahn, and Hee Yong Youn, "An Efficient AP Channel Scanning Scheme for Mobility over WiMax," IEEE ICOIN2012, pp. 334-339, Feb. 2012.
- Kwang Myung Kim, Suk Jung Yong, Back Sun Sim, and Hee Yong Youn, "Effective Packet Buffering for FMIPv6 Protocol over Diffserv Domain," IEEE ICOIN2012, pp.102-107, Feb. 2012.
- Hyung Do Lee, Sung Soo Moon, Suk Jung Yong, and Hee Yong Youn, "Reducing Response Time with Dynamic Load Balancing and Agent Pool in Multi-Agent System," The 14th IEEE International Conference on Computational Science and Engineering(CSE), pp. 503-510, Aug. 2011.
- Han Ku Yoo, Kwang Myung Kim, and Hee Yong Youn, "An Effective Batching Scheme Combining Static Multicasting with Dynamic Multicasting for Mobile IPTV," 2011 IEEE/IPSJ International Symposium on Applications and the Internet(SAINT), July 2011.
- Hong Nhat Pham, Back Sun Sim, and Hee Yong Youn, "A Novel Approach for Selecting the Participants to Collect Data in Participatory Sensing," 2011 IEEE/IPSJ International Symposium on Applications and the Internet(SAINT), pp. 50-55, July 2011.
- Chun Kyung Lee, Thi Hien Pham, Hee Seong Kim, and Hee Yong Youn, "Similarity based Distributed Context Reasoning with Layer Context Modeling," 35th IEEE Annual Computer Software and Applications Conference(COMPSAC) 2011, pp. 320-325, July 2011.
- Kang-Lyul Lee, Hong Nhat Pham, Hee-seong Kim, Hee Yong Youn, and Ohyoung Song, "A Novel Predictive and Self-Adaptive Dynamic Thread Pool Management," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, pp. 93-98, May 2011.
- Kyu Sung Ahn, Dae Gun Kim, Back Sun Sim, Hee Yong Youn, and Ohyoung Song, "Balanced Chain-Based Routing Protocol(BCBRP) for Energy Efficient Wireless Sensor Networks," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Suk Jung Yong, Hyung Do Lee, Han Ku Yoo, Hee Yong Youn, and Ohyoung Song, "Personalized Recommendation System Reflecting User Preference with Context-awareness for Mobile TV," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Sung Soo Moon, Kyung Tae Kim, Seongwoo Lee, Hee Yong Youn, and Ohyoung Song, "An Efficient VoD scheme Combining Fast Broadcasting with Patching," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Jun Yeol Choi, Zhong Yuan Li, and Hee Yong Youn, "Privacy Protection in Service Discovery for Large-scale Distributed Computing Systems," IEEE IPDPS 2011, May 2011.
- Thi Hien Pham, JunYeol Choi, HyungDo Lee, and Hee Yong Youn, "Distributed Multi-agent Reasoning with Layered Context Modeling and Priority," IEEE/ACM GreenCom2010, Dec. 2010.
- Dae Gun Kim, Zhong Yuan Li, Sung Soo Moon, and Hee Yong Youn, "Resource Selection in Large-Scale Distributed System Using Dynamic Task Sharing," IEEE/ACM GreenCom2010, Dec. 2010.
- Seong woo Lee, Chang Hoon Lyu, Kyu Sung Ahn, Seung wok Han, and Hee Yong Youn, "Context Modeling Reflecting the Perspectives of Constituent Agents in Distributed Reasoning," IEEE/ACM GreenCom2010, Dec. 2010.

- Min Seok Choi, Wang Yaqiong, Kyung Tae Kim, Suk Jung Yong, and Hee Yong Youn, ``A New Polling Protocol with Efficient Cluster Creation for WSN,’’ IEEE/ACM GreenCom2010, Dec. 2010.
- Byung Ha Son, Seong Woo Lee, and Hee Yong Youn, ``Prediction-Based Dynamic Load Balancing Using Agent Migration for Multi-Agent System,’’ IEEE HPCC2010, Aug. 2010.
- Chang Hoon Lyu, Min Seok Choi, Zhong Yuan Li, and Hee Yong Youn, ``Reasoning with Imprecise Context Using Improved Dempster-Shafer Theory,’’ IEEE/WIC/ACM IAT2010, Aug. 2010.
- Myung Jin Hwang, Dae Gun Kim, and Hee Yong Youn, ``Enhancing the Performance of Metadata Service for Cloud Computing,’’ IEEE/WIC/ACM Web Intelligence and Intelligent Agent Technology(WI-IAT2010), Aug. 2010.
- Sun Sik Park, Myung Jin Hwang, Sung Soo Moon, and Hee Yong Youn, ``An Efficient VoD Scheme Providing Service Continuity for Mobile IPTV in Heterogeneous Networks,’’ IEEE CIT2010, June 2010.
- Zhong Yuan Li, Sung Keun Song, Sukjung Yong, and Hee Yong Youn, ``Private and Secure Service Discovery Using Incrementally Progressive Exposure and Random Match,’’ IEEE CIT2010, June 2010.
- Byungjun Lee, Kyung Tae Kim, Hyung Do Lee, and Hee Yong Youn, ``A SIP Signaling Retransmission Scheme for Efficient Mobile IPTV Service over 3G Wireless Networks,’’ IEEE CIT2010, June 2010.
- Kyung Tae Kim, Han Ku Yoo, Byung Ha Son, and Hee Yong Youn, ``An Energy Efficient clustering Scheme for Self-Organizing Distributed Wireless Sensor networks,’’ IEEE CIT2010, June 2010.
- Sungchune Choi, Minseuk Choi, Chunkyeong Lee, and Hee Yong Youn, ``Distributed Lock Manager for Distrivuted File System in Shared-Disk Environment,’’ IEEE CIT2010, June 2010.
- Jaehyun Choi, Seungwok Han, Changhoon Lyu, and Hee Yong Youn, ``Enhanced Packet Buffering for DiffServ in Fast Handover Mobile IP,’’ IEEE CIT2010, June 2010.
- Jae Wook Woo, Myung Jin Hwang, Chun Gyeong Lee, and Hee Yong Youn, ``Dynamic Role-Based Access Control with Trust-Satisfaction and Reputation for Multi-Agent System,’’ IEEE WAINA2010, April 2010.
- Kyung Tae Kim, Chang Hoon Lyu, Sung Soo Moon, and Hee Yong Youn, ``Tree-Based Clustering(TBC) for Energy Efficient Wireless Sensor Networks, IEEE WAINA2010, April 2010.
- Hyun Chul Lee, Kyung Tae Kim, Hee Yong Youn, and Ohyoung Song, ``An Efficient AP Channel Scanning Scheme for Real-time Streaming over WLAN,’’ IEEE PerCom2010, March 2010.
- Bo Yle Jung, Min Seok Choi, Hee Yong Youn, and Ohyoung Song, ``Vertical Handover based on the Prediction of Mobility of Mobile Node,’’ IEEE PerCom2010, March 2010.
- Yun Ho Kim, Min Seok Choi, and Hee Yong Youn, ``An Effective Scheduling Strategy for Video on Demand Service in Wireless IPTV,’’IEEE Education Society CNMT2010, Dec. 2010.
- Chi Hyun Cho, Kyung Tae Kim, Hee Yong Youn, and Sung Oh Hwang, ``An Effective Batching Scheme Utilizing the Segment Interval Time for Wireless IPTV,’’ IEEE CCNC-2009, Jan. 2009.
- Jong Ik Jang, Kyung Tae Kim, and Hee Yong Youn, ``An Enhanced Periodic Broadcasting Scheme for VoD with Heterogeneous Receivers,’’ IEEE CCNC-2009, Jan. 2009.

- Eun Sang Noh, Hyun Ko, Chang Hoon Lyu, and Hee Yong Youn, ``Hybrid Context Matchmaking for Fast Context-aware Computing,’’ IEEE(CS) WAINA-2009, May 2009.
- Jae Duck Yu, Kyung Tae Kim, Bo Yle Jung, and Hee Yong Youn, ``An Energy Efficient Chain-Based Clustering Routing Protocol for Wireless Sensor Networks,’’ IEEE(CS) WAINA2009, May2009.
- Nak Beom Sung, Kyung Tae Kim, Sun Sik Park, and Hee Yong Youn, ``A New Counting Scheme for Multicast Broadcast Service with WiBro,’’ IEEE(CS) AINA-2009, May 2009.
- Kyung Tae Kim, Won Jun Choi, Myung Jin Whang, and Hee Yong Youn, ``CA-MAC: Context Adaptive MAC Protocol for Wireless Sensor Networks,’’ IEEE(CS) CSE-2009, Aug. 2009.
- Kyung Tae Kim, Byung Jun Lee, Jae Hyun Choi, Bo Yle Jung, and Hee Yong Youn, ``An Energy Efficient Routing Protocol in Wireless Sensor Networks,’’ IEEE(CS) CSE-2009, Aug. 2009.
- Yong Hee Kim, Seungwok Han, Chang Hun Lyu, and Hee Yong Youn, ``An Efficient Dynamic Load Balancing Scheme for Multi-Agent System Reflecting Agent Workload,’’ IEEE(CS) CSE-2009, Aug. 2009.
- BeoumSun Kim, ByungHa Son, SeungWok Han, and HeeYong Youn, ``Agent Platform-based Directory Facilitator for Efficient Service Discovery,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seung Yeop Shin, Hyun Chul Lee, Sung Keun Song, and Hee Yong Youn, ``A Load Balancing Scheme for Multi-Agent Systems based on Agent State and Load Condition,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seung Yeop Shin, Hyun Chul Lee, Sung Keun Song, and Hee Yong Youn, ``A Load Balancing Scheme for Multi-Agent Systems based on Agent State and Load Condition,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Hyun Ki Hong, Sun Sik Park, Sung Keun Song, and Hee Yong Youn, ``A Priority-based Message Scheduling Scheme for Multi-agent System Dynamically Adapting to the Environment Change,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Kyung Wook Baek, Chang Hoon Lyu, Seungwok Han, and Hee Yong Youn, ``Modeling the Contexts without Distracting the Perspectives of the Agents in Distributed Reasoning,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``Modeling and Verification of Context-awareness Service for Time Critical Applications Using Colored Petri-Net,’’ IEEE(CS) IAT 2008, Dec. 2008.
- SangWon Rhee, Kyu-Yeong Jeon, Sung Keun Song, Hyung Su Lee, Hee Yong Youn , ``A Dynamic Weighting Scheme for Providing Fair Communication Service to Nomadic Agents,’’ IEEE(CS) ISDA 2008, Nov. 2008.
- Joon Hwang Kim, Jeong Hun Chu, Seungwok Han, Chang Won Park, and Hee Yong Youn, ``Hierarchical P2P Networking and Two-level Compression Scheme for Multi-agent System Supporting Context-aware Applications,’’ IEEE(CS) ISDA 2008, Nov. 2008.
- Hyun Ko, Seungwok Han, Ungmo Kim, and Hee Yong Youn, ``A New Agent Characterization Model and Grouping Method,’’ IEEE IRI 2008, July 2008.

- Feng Ming Hu, Yun Ho Kim, Kyung Tae Kim, Hee Yong Youn, and Chang Won Park, ``Energy-Based Selective Cluster-head Rotation in Wireless Sensor Networks,’’ ACM ICAIT 2008, July 2008.
- Yaqiong Wang, Kyung Wook Baek , Kyung Tae Kim, Hee Yong Youn, and Hyung Su Lee, ``Clustering with Case-based Reasoning for Wireless Sensor Network,’’ ACM ICAIT 2008, July 2008.
- Juryon Paik, Junghyun Nam, Hee Yong Youn, and Ung Mo Kim, ``Discovery of Useful Patterns from Tree-Structured Documents with Label-Projected Database,’’ ATC 2008, Springer, June 2008.
- Eunyoung Kang, Hee Yong Youn, and Ungmo Kim, ``Mining Based Decision Support Multi-agent System for Personalized e-Healthcare Service,’’ KES-AMSTA, 2008, Springer, March 2008.
- Chi Hyun Cho, Kyung Tae Kim, and Hee Yong Youn, ``Mobile Multi-hop Relay System using AMC for Multicast Broadcast Service over Mobile WiMAX,’’ IEEE WTS 2008, April 2008.
- Kyu Seol Lee, Sang Won Rhee, and Hee Yong Youn, ``A MAC Layer Multicasting Approach for WiMAX Access Networks,’’IEEE Percom 2008, March 2008.
- Sung Keun Song, SeungWok Han, and Hee Yong Youn, ``A New Agent Platform Architecture Supporting the Agent Group Paradigm for Multi-Agent Systems,’’ IEEE/WIC/ACM IAT 2007, Nov. 2007.
- Yang Seok Yoon, Hyun Ko, SeungWok Han, and Hee Yong Youn, ``Priority-based Message Scheduling for the Multi-agent System in Ubiquitous Environment,’’ IEEE/WIC/ACM WI/IAT Workshops, Nov. 2007.
- Sun Wook Kim, Hee Yong Youn, Sung Jin Choi, and Nak Beom Sung, ``GAPS: The Genetic Algorithm-based Path Selection Scheme for MPLS Network ,’’ IEEE IRI '07, Aug. 2007.
- Kyu Yeong Jeon, Kyu Seol Lee, and Hee Yong Youn, ``Dynamic Load Balancing for Large-scale Distributed System with Intelligent Fuzzy Controller,’’ IEEE IRI '07, Aug. 2007.
- Seungwok Han,Sung Keun Song, and Hee Yong Youn, ``Dynamic Software Adaptation with Dependence Analysis for Multi-Agent Platform,’’ ICCSA '07, Aug. 2007.
- Kyu Bong Cho, Seungwok Han, and Hee Yong Youn, ``Efficient and Dynamic Location-based Event Service for Mobile Computing Environments,’’ ICCSA '07, Aug. 2007.
- Ki Young Jang, Kyung Tae Kim, and Hee Yong Youn, ``An Energy Efficient Routing Scheme for Wireless Sensor Networks,’’ ICCSA '07, Aug. 2007.
- Young Kwon You, Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``Context-based Dynamic Channel Management for Efficient Event Service in Pervasive Computing, ICCSA '07, Aug. 2007.
- Kyu Bong Cho, Sung Keun Song, and Hee Yong Youn, ``Publisher-side Event Filtering for QoS-Awareness in Ubiquitous Computing,’’ ICCSA '07, Aug. 2007.
- Sung Jin Choi and Hee Yong Youn, ``MKPS: A Multi-level Key Pre-distribution Scheme for Secure Wireless Sensor Networks,’’ LNCS HCI '07, Springer, July 2007.
- Su Lee, Sung Song, and Hee Yong Youn, ``On the Efficiency of Service Discovery for Ubiquitous Computing,’’ SPECTS 2007, SCS, July 2007.

- Xiaoling Wu, Jinsung Cho, Brian J. d'Auriol, Sungyoung Lee, and Hee Yong Youn, ``Self-deployment of Mobile Nodes in Hybrid Sensor Networks by AHP, LNCS UIC '07, Springer, July 2007.
- Ji Hoon Kim, Seungwok Han, and Hee Yong Youn, ``Prediction-based Dynamic Thread Pool Management of Agent Platform for Ubiquitous Computing,`` LNCS UIC '07, Springer, July 2007.
- Vo Dinh Minh Nhat, Sung Young Lee, and Hee Yong Youn, ``Whitened LDA for Face Recognition,`` CIVR '07, ACM, July 2007.
- Eung Ju Lee, Kyu Seol Lee, and Hee Yong Youn, ``Performance Enhancement of Multimedia Data Transmission by Adjusting Compression Rate, LNCS ICCS '07, Springer, May 2007.
- Thanh Hai Trinh, Ji Hoon Kim, and Hee Yong Youn, ``A Scheme for Low Path Loss in Object Monitoring with Sensor Network,`` IEEE AINA '07, May 2007.
- Thanh Hai Trinh and Hee Yong Youn, ``On Mobile Sink Node for Target Tracking in Wireless Sensor Networks,`` IEEE PERCOMW '07, March 2007.
- Ae hee Park, So Hyun Park, and Hee Yong Youn, ``A Flexible and Scalable Agent Platform for Multi-Agent Systems,`` CISE 2007, Jan. 2007.
- Young Kwon You, Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``CALM: An Intelligent Agent-based Middleware for Community Computing,`` SEUS-WCCIA'06, IEEE(CS), April 2006.
- Insuk Park, Kyungmin Lee, Dongman Lee, Soon J. Hyun, and Hee Yong Yoon, ``A Dynamic Context Conflict Resolution Scheme for Group-aware Ubiquitous Computing Environments,`` ubiPCMM 2005, Sept. 2005.
- Sejung Oh, Juryon Paik, Hee Yong Youn, and Ungmo Kim, ``Ontology-based Service Discovery Middleware for Heterogeneous Agent Platforms,`` ubiPCMM05, Sept. 2005.
- Kyung Tae Kim and Hee Yong Youn, ``PEACH: Proxy-Enable Adaptive Clustering Hierarchy for Wireless Sensor Networks,`` ICWN 2005, June 2005.
- Hee Yong Youn, ``A Linux-Based Implementation of a Middleware Model Supporting Time-Triggered Message-Triggered Objects,`` IEEE ISORC 2005, May 2005.
- Su Myeong Lee and Hee Yong Youn, ``Dynamic window-based adaptive fault monitoring for ubiquitous computing systems,`` IEEE PRDC2005 , Dec. 2005.
- Hyun Ko, Seungwok Han, and Hee Yong Youn, ``Adaptive Bridging with Portable Interceptor for Efficient Integration of Reflective Middleware,`` 6th International Middleware Conference, ACM/IFIP/USENIX, Feb. 2005.
- Hye Hwan Ahn, Hee Yong Youn, and Chang-Won Park, ``Incorporation of Bin Packing with Deficit Round Robin for Efficient Slot Scheduling in Bluetooth,`` ICWN 04, CSREA Press, June 2004.
- Seung Wok Han, Yeo Bong Yoon, Hee Yong Youn, and We-Duke Cho, ``A New Middleware Architecture for Ubiquitous Computing Environment,`` The 2nd IEEE Workshop on Software Technologies for Embedded and Ubiquitous Computing Systems, May 2004.
- Jong Ho Lee and Hee Yong Youn, ``Efficient Power-aware Hybrid Routing Using Zoning for Ad Hoc Network,`` 18th International Conference Computers and Their Applications, March 2003.

- S. Moh, C. Yu, B. Lee, and H.Y. Youn, ``Energy Efficient and Robust Multicast Protocol for Mobile Ad Hoc Networks, Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 145 - 152, Dec. 2002.
- H.Y. Youn et al., ``Distributed Lock Manager for File Sharing in Storage Area Network," Proc. of the IASTED Int'l Conf. on Communications and Computer Networks, pp. 492-497, Nov. 2002.
- H.Y. Youn et al., ``An Efficient Hybrid Replication Protocol for Highly Available Distributed System," Proc. of the IASTED Int'l Conf. on Communications and Computer Networks, pp. 492-497, Nov. 2002.
- M.J. Seo, H.Y. Youn, J.H. Lee, and H. Choo, ``Multiple Zoning with Multiple Posts for Efficient Routing in MANET," 2nd Int'l Conf. on Computer and Information Science, pp. 831-836, Aug. 2002.
- Y.H. Kim, H.Y. Youn, and H. Choo, ``Bi-active Load Balancer for Enhancing Scalability and Fault-tolerance of Cluster System," 2nd Int'l Conf. on Computer and Information Science, pp. 429-434, Aug. 2002.
- D. Kim, H. Choo, H.Y. Youn, and K. Kim, ``Performance Improvement of Inter-system Handoff for IMT 2000," Proc. of the IASTED Int'l Conf. on Wireless and Optical Communications, pp. 601-606, July 2002.
- W. Yoon, D. Lee, H.Y. Youn, S. Lee, and S.J. Koh, "A Combined Group/Tree Approach for Scalable Many-to-many Reliable Multicast," IEEE Infocom 2002, pp. 1336-1345, June 2002.
- M.M. Thaduri, S.M. Yoo, and H.Y. Youn, ``An Efficient Implementation of IDEA Encryption Algorithm using VHDL," Proc. Int'l Conf. On Security and Management, pp. 262-268, June 2002.
- S.C. Choi, H.Y. Youn, and H. Choo, ``An Efficient Locking Mechanism by Duplication Object Control in Distributed Lock Server Environment," Proc. 2nd KISS Data Storage System Conf., pp. 160-165, May 2002.
- W. Yoon, D. Lee, H.Y. Youn, and S.J. Koh, "Throughput Analysis of Tree-based Protocols for Many-to-many Reliable Multicast," 2002 IEEE Int'l Conf. on Communications, pp. 2523-2527, April 2002.
- W. Yoon, D. Lee, and H.Y. Youn, "On the Scalability of Many-to-many Reliable Multicast Sessions," Proc. IEEE IPDPS/PMEO 02, pp. 255-259, April 2002.
- V.V. Shakhov, H. Choo, and H.Y. Youn, ``On Detecting Unsteady Demand in Mobile Networking Environment," Proc. Int'l Conf. On Computer Science (LNCS 2331), pp. 1108-1117, April 2002.
- H. Shin, D. Lee, S.J. Hyun, Y. Lee, M. Kim, and H.Y. Youn, ``Extensions to DNS for Supporting Internationalized Domain Names," Proc. 16th Int'l Conf. On Information Networking (LNCS 2344), pp. 9A-3.1-9A-3.9, Jan. 2002.
- D. Chung, H. Choo, H.Y. Youn, and D. Lee, ``Modified Virtual Layer Scheme for Location Management," Proc. 16th Int'l Conf. On Information Networking (LNCS 2343), pp. 10B-4.1-4.13, Jan. 2002.
- G.-L. Park, H.Y. Youn, and H. Choo, ``Optimal Checkpoint Interval Analysis Using Stochastic Petri Net," Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 57 - 60, Dec. 2001.
- D. Lee, D. Nam, H.Y. Youn, and C. Yu, ``The Implementation and Analysis of OCI-Based Group Communication Support in CORBA," Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 281-288, Dec. 2001.

- A.S.Rodionov, V.S.Antjufeev, H. Choo, H.Y. Youn, "About one problem of the CDMA nets modeling", Proc. of the ICSNET'2001 Int. Symp. on Modular Systems and Network Problems, Moscow, 19-21 Oct., 2001. P.205-209 (in Russian).
- Y.J. Choi, H.Y. Youn, S. Seol, and S.J. Yoo, "Distributed Test Using Logical Clock," 21st IFIP WG. 6.1 Proc. of the Int'l Conference on Formal Techniques for Networked and Distributed Systems, pp. 69-84, Aug. 2001.
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," 25th Int'l Conf. on Parallel Processing, pp. 331-338, Aug. 2001.
- K. Fang, H.Y. Youn, H. Choo, and C. Yu, "Evaluation of Proactive Congestion Control on RED Gateway," Proc. of Parallel and Distributed Computing Systems Conference, pp. 235-242, Aug. 2001.
- K. Woo, C. Yu, D. Lee, H.Y. Youn, and Ben Lee, "Non-Blocking, Localized Routing Algorithm for Balanced Energy Consumption in Mobile Ad Hoc Networks," in Proc. of the Ninth Int'l Symp. on Modeling, Analysis and Simulation of Computer and Telecommunication Systems, pp. 325-332, Aug. 2001.
- H. Y. Youn, H.-S. Kim, H. Choo, and K. Kim, "A New Incremental Rerouting for handoff in Wireless ATM Networks," First Int'l Conf. on Human.Society@Internet, pp. 157-169, July 2001.
- D. Chung, H. Choo, H.Y. Youn, and J.-K. Park, "Enhanced Virtual Layer Scheme for Mobility Management in PCS Networks," Int'l Conf. On Parallel and Distributed Processing Techniques and Applications, pp. 2218-2224, June 2001.
- S. Lee, H.Y. Youn, and H. Choo, "Comparative Study on the Locking Mechanism of Distributed File Systems," Proc. of the 1st KIPS Storage System Conf., pp. 173-179, June 2001.
- H. Choo and H.Y. Youn, "Two-Dimensional TMR with Partial Majority Selection and Forwarding," IEEE Int'l Symp. on Industrial Electronics (ISIE 2001), pp. 239-245, June 2001.
- S.M. Moh, C. Yu, H.Y. Youn, B. Lee, and D. Han, "Mapping Strategies for Switch-Based Cluster Systems of Irregular Topology," 2001 Int'l Conf. On Parallel and Distributed Systems, pp. 158-165, June 2001.
- G.-W. Kim, H.Y. Youn, H. Choo, J.-W. Woo, and S.-M. Yoo, "Finding Neighbor Blocks on 3D RMESH in Constant Time without Condition," Int'l Conf. On Parallel and Distributed Processing Techniques and Applications, pp. 2225-2231, June 2001.
- A. S. Rodionov, H. Choo, H. Y. Youn, Tai M. Chung, and K. Park, "Efficient Random Process Generation for Reliable Simulation of Complex Systems," Int'l Conf. on Computational Science (ICCS 2001), pp. 912-921, May 2001.
- K. Fang, H.Y. Youn, and H. Choo, "On Parallel Simulation of the Performance of TCP," Proc. of the 3rd KSII Spring Conf., pp. 325-332, May 2001.
- H.S. Lee, H.Y. Youn, and H. Choo, "Performance Comparison of Location Management Schemes in Wireless PCS Networks," Proc. of the 15th KIPS Spring Conf., pp. 1193-1196, April 2001.
- S. Moh, C. Yu, H.Y. Youn, D. Han, . Lee, and D. Lee, "A Fast Tree-Based Barrier Synchronization on Switch-Based Irregular Networks," 7th High Performance Computing, pp. 273-282, Dec. 2000.

- H. Kim, D. Lee, and H.Y. Youn, "A Scalable Membership Service for Group Communications in WANs," IEEE 2000 Pacific Rim Int'l Symp. on Dependable Computing, pp. 59-66, Dec. 2000.
- H.Y. Youn et. al, "Dynamic Process Scheduling in Linux for Mobile Computing," in 13th Int'l Conference on Computer Applications in Industry and Engineering, pp. 220-223, Nov. 2000.
- S. Moh, C. Yu, H.Y. Youn, D. Han, B. Lee, and D. Lee, "A Fast Tree-based Barrier Synchronization without Nonmember Interference on 2-D Meshes," Parallel and Distributed Computing and Systems Conference, pp. 711-716, Nov. 2000.
- D. Nam, D. Lee, H.Y. Youn, and C. Yu, "Group Communication Support for CORBA using OCI," Parallel and Distributed Computing and Systems Conference, pp. 106-111, Nov. 2000.
- H. Youn, H. Choo, and H. Feng, "A New Cell Distribution Approach for Parallel ATM Switch," Parallel and Distributed Computing and Systems Conference, pp. 99-105, Nov. 2000.
- S.-I. Lee, Y. Park, M. Kim, H.Y. Youn, and B. Lee, "Automatic Test Case Generation using Multi-protocol Test Method," in Ninth IEEE Int'l Conference on Computer Communications and Network, pp. 360-367, Oct. 2000.
- S. Kang, H.Y. Youn, Y.H. Lee, D. Lee, and M. Kim "The Active Traffic Control Mechanism for Layered Multimedia Multicast in Active Network," in Proc. of the Eighth IEEE Int'l Symp. on Modeling, Analysis and Simulation of Computer and Telecommunication Systems, pp. 325-332, Aug. 2000.
- J. Lee, M. Kim, H.Y. Youn, Y. Hahm, and D. Lee, "Class-Based Proxy Server for Mobile Computers," in 2000 Int'l Conference on Parallel Processing, Workshop on Wireless Networks and Mobile Computing, pp. 559-566, Aug. 2000.
- Gookwhan Ahn, Kwangjo Kim, and Hee Yong Youn, "Tapping Alert Protocol," Proc. of IEEE WET-ICE2000 Workshop on Enabling Technologies, NIST, pp. 159-164, June, 2000.
- Y. Yoon, H.-S. Kim, D.S. Han, and H.Y. Youn, "Parallel Processing of Recurrence Operations in SMP Machine," in Int'l Conference on Parallel and Distributed Processing Techniques and Applications, pp. 1659-1665, June 2000.
- H.Y. Youn, C. Yu, D.S. Han, and D. Lee, "The Approaches for High Available and Fault-Tolerant Cluster Systems," in 2000 Int'l Workshop on Fault-Tolerant Control and Computing, pp. 107-116, May. 2000.
- D. Lee, J. Yang, H.Y. Youn, C. Yu, and S.J. Hyun, "Entity-Centric Scalable Concurrency Control for Distributed Interactive Applications," in 2000 IEEE Int'l Performance, Computing, and Communications Conf., Feb. 2000.
- S. Afroz, H.Y. Youn, and D. Lee, "Performance of Message Logging Protocols for NOWs with MPI," IEEE 1999 Pacific Rim Int'l Symp. on Dependable Computing, pp. 252-259, Dec. 1999.
- S.J. Chen, H.Y. Youn, C.S. Yu, and S.M. Yoo, "Heterogeneous Computing Based on PVM with Dynamically Varying Loads," IASTED Parallel and Distributed Computing and Systems (PDCS '99), pp. 794-799, Nov. 1999.
- H.Y. Youn, J. Zhang, and H. Feng, "ATM Switch Buffer Management for TCP Traffic Control," in 8th IEEE Int'l Conf. on Computer Communications and Networks, pp. 193-198, Oct. 1999.

- H.Y. Youn, E-N. Huh, and S.M. Yoo, "Load Balancing and Processor Utilization for Solving Linear Systems," in 1999 Parallel and Distributed Computing Systems, pp. 351-356, Aug. 1999.
- S.M. Yoo and H.Y. Youn, "An Efficient Partial Compaction Scheme for 3D Torus-connected Parallel Systems," in 1999 Parallel and Distributed Computing Systems, pp. 225-230, Aug. 1999.
- S.M. Yoo and H.Y. Youn, "A Task Compaction Scheme for 3D Torus Multicomputer Systems," in 1999 Int'l Conference on Parallel and Distributed Processing Techniques and Applications, pp. 414-419, June. 1999.
- H.Y. Youn, Edward Moffett, and S.M. Yoo, "Multiprocessor Task Scheduling for Optimizing Target Performance Measure," in 1999 IEEE High Performance Computing Conference, pp. 211-216, April, 1999.
- H.Y. Youn, "Data Management for Mobile Computing," in 1998 Korea-U.S. Technical Conference on Strategic Technologies, pp. 131-138, Oct. 1998.
- G.L. Park, H.Y. Youn, and B. Shirazi, "Checkpointing with Sample Comparison for Reliable Parallel Systems," in 1997 Parallel and Distributed Computing Systems, pp. 83-90, Oct. 1997.
- T.S. Chen, H.Y. Youn, and K.M. Kavi, "Scalable Software System Architecture for Parallel Logic Simulation of Large VLSI Designs," in 1997 Parallel and Distributed Computing Systems, pp. 59-64, Oct. 1997.
- H. Choo, H.Y. Youn, and S.M. Yoo, "An Efficient Submesh Allocation Scheme for 3D Torus Multicomputer Systems," in the 2nd Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, pp. 83-90, March 1997.
- S.M. Yoo and H.Y. Youn, "Finding Maximal Submeshes in 2D Mesh in the Presence of Failed Nodes," in the 2nd Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, pp. 97-103, March 1997.
- S.M. Yoo and H.Y. Youn, "Largest-Job-First-Scan-All Scheduling Policy for 2D Mesh-Connected Systems," in IEEE 6th Frontiers Massively Parallel Computing, pp. 135-142, Oct. 1996.
- H.Y. Youn et al., "Dynamic Task Scheduling and Allocation for 3D Torus Multicomputer Systems," 25th Int'l Conf. on Parallel Processing, pp. III-199-206, Aug. 1996.
- H.Y. Youn, H. Choo, and K.M. Kavi, "Performance Enhancement of MIN using Unit Step Buffering Scheme," in Proc. of 11th Int'l Conf. on Systems Engineering, pp. 578-583, July 1996.
- G.-L. Park, H.Y. Youn, and B. Shirazi, "Duplex with Self-Test: A Roll-Forward Checkpointing Scheme for High Performance Computing," High Performance Computing '96, pp. 314-319, April 1996.
- S.M. Yoo and H.Y. Youn, "An On-line Scheduling and Allocation Scheme for Real-time Tasks in 2D Meshes," in 7th IEEE Symp. on Parallel and Distributed Processing, pp. 660-667, Oct. 1995.
- H.Y. Youn and H. Choo, "Packet Switched Multistage Interconnection Networks with Multiple Packet Movement per Network Cycle," in 1995 Parallel and Distributed Computing Systems, pp. 183-188, Sept. 1995.
- S.M. Yoo and H.Y. Youn, "Efficient Task Allocation for 2D Mesh Parallel Systems," IEEE Int'l Conf. on Distributed Computing Systems, pp. 801-808, May 1995.

- K.M. Kavi and H.Y. Youn, ``A Real-Time Performability Evaluation Tool," in AIAA Computing in Aerospace 10, pp. 246-255, March 1995.
- H.Y. Youn, S.M. Yoo, and B. Shirazi, ``Task Relocation in Two-Dimensional Meshes," in 7th Int'l Conf. on Parallel and Distributed Computing Systems, pp. 230-235, Oct. 1994.
- C.G. Oh and H.Y. Youn, ``Fault Tolerant Processor Arrays for Nonlinear Shortest Path Problem," in IEEE Int'l Conf. on Computer Design, pp. 79-83, Oct. 1994.
- H-B. Chen, B. Shirazi, J. Yeh, H.Y. Youn, and S. Thrane, ``A Visualization Tool for Display and Interpretation of SISAL Programs," in 7th Int'l Conf. on Parallel and Distributed Computing Systems, pp. 734-739, Oct. 1994.
- J.Y. Lee and H.Y. Youn, ``PSIM: Periodically Shifted Interleaved Memory System," in the 23rd Int'l Conf. on Parallel Processing, pp. 220-223, Aug. 1994.
- M. Vashi, V. Raj, and H.Y. Youn, ``A Distributed Controller for System Level Integration," in the Fourth Great Lakes Symp. on VLSI, pp. 35-42, April 1994.
- K.M. Kavi, H.Y. Youn, and B. Shirazi, ``A Performability Model for Soft Real-Time Systems," in the 27th Hawaii Int'l Conf. on System Sciences, Vol. II, pp. 571-579, Jan. 1994.
- H.Y. Youn and K.O. Lee, ``Fault-Tolerant Sorting Using VLSI Processor Arrays," in the 1993 Workshop on Defect and Fault Tolerance in VLSI Systems, pp. 25-32, Oct. 1993.
- H.Y. Youn, K.O. Lee, and V.K. Raj, ``Modified Odd-Even Sorting Network for High Performance," in the Sixth ISCA Int'l Conf. on Parallel and Distributed Computing Systems, pp. 432-437, Oct. 1993.
- C.G. Oh and H.Y. Youn, ``On Concurrent Error Detection, Location, and Correction of FFT Networks," in the 23rd Int'l Symp. on Fault-Tolerant Computing, pp. 596-605, June 1993.
- J.Y. Lee, H.Y. Youn, and A.D. Singh, ``Adaptive Voting for Faulty(VFF) Node Scheme for Distributed Self-Diagnosis," in the 23rd Int'l Symp. on Fault-Tolerant Computing, pp. 480-489, June 1993.
- S. Aranake, V. Raj, M. Vashi, and H.Y. Youn, ``Optimal Register Allocation in High Level Synthesis," in the Third Great Lake Symp. on VLSI, pp. 71-75, March 1993.
- C.G. Oh, H.Y. Youn, and V.K. Raj, ``Algorithm-Based Concurrent Error Detection for FFT Network," in the IEEE 1993 VLSI Design Conference, pp. 144-147, Jan. 1993.
- B. Kim, H.Y. Youn, and K.M. Kavi, ``Hierarchical Interconnection Networks: Routing Performance in the Presence of Faults," in the Fourth Int'l Symp. on Parallel and Distributed Processing, pp. 162-165, Dec. 1992.
- C.G. Oh, H.Y. Youn, and V.K. Raj, ``An Efficient Algorithm-Based Fault Tolerance Design with Extended Rearranged Hamming Checksum," in the 1992 IEEE Workshop on Defect and Fault Tolerance in VLSI Systems, pp. 237-246, Nov. 1992.
- J.Y. Lee, H.Y. Youn, and V.K. Raj, ``An Efficient Dictionary Machine Using Hexagonal Processor Arrays," in the Fifth ISMM Int'l Conf. on Parallel and Distributed Computing and Systems, pp. 322-327, Oct. 1992.

- C.G. Oh, H.Y. Youn, and V.K. Raj, ``Rearranged Hamming Checksum for Matrix Computations with Algorithm-Based Fault Tolerance," 1992 IEEE Workshop on Fault-Tolerant Parallel and Distributed Systems, pp. 185-192, July 1992.
- Y. Mun and H.Y. Youn, ``On Performance Evaluation of Fault Tolerant Multistage Interconnection Network," in Proc. 1992 Symp. on Applied Computing, pp. 1-10, March 1992.
- C. Chevli and H.Y. Youn, ``Performance Enhancement of Multistage Interconnection Network with Nonuniform Traffic," in Proc. Third IEEE Symp. on Parallel and Distributed Processing, pp. 796-803, Dec. 1991.
- H.Y. Youn, ``An Efficient Multiprocessor Architecture for Image Processing in VLSI," in 1991 Int'l Conference on Computing and Information, pp. 496-505, May 1991.
- H.Y. Youn, ``Compact Testing with Intermediate Signature Analysis," in the Ninth IEEE VLSI Test Symp., pp. 47-52, April 1991.
- H.Y. Youn and C. Chevli, ``A Local Blocking Scheme for Performance Enhancement of MIN," in 1991 Symp. on Applied Computing, pp. 273-282, April 1991.
- H.Y. Youn and A.D. Singh, ``A New Processor Interconnection Structure for Fault Tolerant Processor Arrays," in Proc. Fourth Int'l Symp. on VLSI Design, pp. 261-266, Jan. 1991.
- C. Chevli and H.Y. Youn, ``An Efficient VLSI Network Bridge Architecture for Local Area Networks," in Proc. Int'l Conf. on Computing and Information, pp. 491-495, May, 1990.
- H.Y. Youn and A.D. Singh, ``Fault Tolerant Interconnect for On-Wafer Processor Communication," in Proc. IEEE Int'l Conf. on Communications/Supercomm, pp. 786-790, April, 1990.
- A.D. Singh and H.Y. Youn, ``Defect Tolerance Scheme for GigaFLOP WSI Architecture," in Proc. IEEE Int'l Conf. on Wafer Scale Integration, pp. 109-115, Jan. 1990.
- H.Y. Youn and A.D. Singh, ``An Efficient Channel Routing Algorithm for Defective Arrays," in Proc. IEEE Int'l Conf. on Computer-Aided Design, pp. 432-435, Nov. 1989.
- P.K. Rhee, J.H. Kim and H.Y. Youn, ``A Novel Reconfiguration Scheme for 2-D Processor Arrays," in Proc. Int'l Conf. on Computer-Aided Design, pp. 230-233, Nov. 1989.
- H.Y. Youn, A.D. Singh and J.H. Kim, ``An Efficient Reconfiguration Scheme for WSI of Cube-Connected Cycles with Bounded Channel Width," in Proc. 1989 IEEE Int'l Workshop on Defect and Fault Tolerance in VLSI Systems, Oct. 1989.
- H.Y. Youn and A.D. Singh, ``A Near Optimal Adaptive Row Modular Design for Efficiently Reconfiguring Processor Array in VLSI," in Proc. Int'l Conf. on Parallel Processing, 1261-265, Aug. 1989.
- H.Y. Youn and A.D. Singh, ``Highly Efficient Design for Reconfiguring Processor Array in VLSI," in Proc. Int'l Conf. on Parallel Processing, pp. 375-382, Aug. 1988.
- H.Y. Youn and A.D. Singh, ``Near Optimal Embedding of Binary Tree Architectures in VLSI," in Proc. 8th IEEE Int'l Conf. on Distributed Computing Systems, pp. 122-129, June 1988.
- H.Y. Youn and A.D. Singh, ``On Area Efficient and Fault Tolerant Tree Embedding in VLSI," in Proc. Int'l Conf. on Parallel Processing, pp. 171-178, Aug. 1987.

C. BOOK and BOOK CHAPTERS

- H.Y. Youn et al., ``Computers: Tools for an Information Age,’’ H.L. Capron and J.A. Johnson, Prentice Hall, 8ed, Korean Language Edition, Hongreung Science Publishing Co., 2012
- H.Y. Youn, Chansu Yu, Ben Lee, S.M. Moh, ``Energy Efficient Multicast in Ad Hoc Networks,’’ Handbook of Ad Hoc Wireless Networks (CRC),” pp. 387 – 398, Dec. 2003.
- H.Y. Youn, Chansu Yu, Ben Lee, ``Routing Algorithms for balanced Energy Consumption,” Handbook of Ad Hoc Wireless Networks, CRC Press, 2002.

D. PATENT REGISTRATION

- South Korea, 20180503, 10-1856552, WIRELESS SENSOR NETWORK SYSTEM WITH IMPROVED EVENT DETECTION EFFICIENCY, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Xianda Chen, Sang Young Kim, Jun Seok Song, Byoung Hoo Song
- South Korea, 20170622, 10-1752063, METHOD FOR EFFICIENT MOBILE MANAGEMENT IN HETEROGENEOUS NETWORK AND MOBILE TERMINAL USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Xianda Chen, Young Kyo Jung, Jung Joon Lee
- South Korea, 20161207, 10-1686346, COLD DATA EVICTION METHOD USING NODE CONGESTION PROBABILITY FOR HDFS BASED ON HYBRID SSD, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Jung Joon Lee, Na Young Bang
- South Korea, 20161107, 10-1675694, BLOCK REPLACEMENT METHOD OF SSD BASED ON BLOCK POPULARITY, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Yeon Joong Ryu, Sang Hyun Yoo, Dong Young Chung
- South Korea, 20161010, 10-1666740, METHOD FOR GENERATING ASSOCIATION RULES FOR DATA MINING BASED ON SEMANTIC ANALYSIS IN BIG DATA ENVIRONMENT, Hee Yong Youn, Kyung Tae Kim, Na Young Park, Hee Jung Park, Young Ho Seo
- South Korea, 20161010, 10-1666758, METHOD FOR SEARCHING DATA USING ENHANCED BLOOM FILTER, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Seung Wan Kim, Byung Joon Lee
- South Korea, 20160912, 10-1658736, WSN CLUSTERING METHOD USING OF CLUSTER TREE STRUCTURE WITH LOW ENERGY LOSS, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Ji Hyun Choi, Byung Joon Lee, Sung Min Jung
- South Korea, 20160817, 10-1650661, METHOD FOR DETECTING EVENTS WITH SENSOR NETWORK IMPROVING PERFORMANCE AND SENSOR NETWORK SYSTEM USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Seung Wan Kim, Young Ho Seo, Byung Joon Lee
- South Korea, 20160808, 10-1648317, METHOD FOR SEARCHING DATA USING PARTITIONED BLOOM FILTER FOR SUPPORTING ITEM ELIMINATION, CACHE MEMORY APPARATUS AND STORAGE APPARATUS USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Ji Hyun Choi, Young Kyo Jung
- South Korea, 20160726, 10-1644750, SENSER NODE AND SERVER, AND WIRELESS SENSOR NETWORK SYSTEM COMPRISING THEM AND METHOD OF MANAGING WIRELESS

SENSOR NETWORK, Hee Yong Youn, Man Yoon Kim, Seung Wan Kim, Young Ho Seo, Byung Joon Lee

- South Korea, 20160708, 10-1639944, EFFICIENT AND PROMPT HANDOVER METHOD IN LTE-BASED SYSTEMS BY PREDICTION THE TARGET ENODEBS, AND THEREOF BASE STATION, Hee Yong Youn, Kyungtae Kim, Nayoung Park, Sanghyun Yoo, Byungjun Lee, Xianda Chen
- South Korea, 20160708, 10-1639947, HADOOP PREEMPTIVE DEADLINE CONSTRAINT SCHEDULING METHOD, EXECUTION PROGRAM THEREOF METHOD AND RECORDED MEDIUM OF THE PROGRAM, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Yeonjoong Ryu, Ihsan Ullah, Byungjun Lee
- South Korea, 20160202, 10-1704936, BLOCK REPLACEMENT METHOD BASED ON RECENCY, AND THEREOF HYBRID STORAGE SYSTEM, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Sang Hyun Yoo, Dong-young Chung
- South Korea, 20160202, 10-1675198, METHOD FOR OBTAINING SOLUTIONS BASED ON WEIGHTING ANALYTIC HIERARCHY PROCESS, GREY NUMBER AND ENTROPY FOR MULTIPLE-CRITERIA GROUP DECISION MAKING PROBLEMS, Hee Yong Youn, Oh Kyung Hwan, Hyung Koo Kang, Jong-chang Park, Sul Woo Sik, Byung Joon Lee, Kyung Tae Kim
- South Korea, 20151217, 10-1580048, METHOD FOR DISTRIBUTED SEMANTIC SERVICE DISCOVERY FOR MANET ENVIRONMENT AND MOBILE NODE DEVICE USING THE SAME, Hee Yong Youn, Jongchang Park, Minseok Choi, Woosik Seol, Kyunghwan Oh, Kyungtae Kim, Byungjun Lee
- South Korea, 20151007, 10-1560523, OPERATING METHOD OF WIRELESS SENSOR NETWORKS CONSIDERING ENERGY EFFICIENCY, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Yeonjoong Ryu, Heejung Park, Byungjun Lee
- South Korea, 20150814, 10-1546252, SENSER NODE AND SERVER, AND WIRELESS SENSOR NETWORK SYSTEM COMPRISING THEM AND METHOD OF MANAGING WIRELESS SENSOR NETWORK, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Seungwan Kim, Youngho Seo, Byungjun Lee, Hogeun Song
- America, 20150519, 9037135, METHOD FOR HANDOVER OF MOBILE TERMINAL, Hee Yong Youn, Hwiwoon Jung, Junyeol Choi, Hyunggu Kang, Heesung Kim
- South Korea, 20140704, 10-1418307, METHOD FOR OBTAINING SOLUTIONS BASED ON INTERVAL GREY NUMBER AND ENTROPY FOR MULTIPLE-CRITERIA GROUP DECISION MAKING PROBLEMS, Hee Yong Youn, Hyunggu Kang, Daegun Kim, Heesung Kim, Hwiwoon Jung, Gunyong Park, Hogeun Song
- South Korea, 20140507, 10-1394247, METHOD AND SYSTEM FOR RECOMMENDING CONTEXT-AWARE SERVICES BASED ON USER RELATIONSHIP, Hee Yong Youn, Baeksun Sim, Kwangmyung Kim, Heesung Kim, Kyungtae Kim, Gunyong Park, Hogeun Song, Hyunggu Kang, Hwiwoon Jung
- South Korea, 20140414, 10-1373894, GENERATING METHOD FOR BALANCED CHAIN TOPOLOGY IN WIRELESS SENSOR NETWORKS, Hee Yong Youn, Seungwook Han, Kyungtae Kim, An Kyusung
- South Korea, 20140306, 10-1373894, TIME CRITICAL CONTEXT AWARE SERVICE MODELING METHOD AND SYSTEM FOR CONTEXT AWARENESS COMPUTING, Hee Yong Youn,

Seungwook Han, Kyungtae Kim, Zhuxian Cui, Heesung Kim, Hyochan Bang, Malhee Kim, Donghwan Park

- South Korea, 20140204, 10-1360835, A METHOD FOR OFFERING HANDOVER OF MOBILE TERMINAL, Hee Yong Youn, Hwiwoon Jung, Junyeol Choi, Hyunggu Kang, Heesung Kim
- South Korea, 20130904, 10-1297006, DISTRIBUTED CONTEXT INFERENCE BASED ON SIMILARITY AND HIERARCHICAL CONTEXT MODELING, Hee Yong Youn, Back Sun Sim, Kyung Tae Kim
- South Korea, 20130901, 10-1293005, VIDEO ON DEMAND SUPPORTING IPTV SERVICE IN WIRED/WIRELESS INTEGRATED ENVIRONMENT, Hee Yong Youn, Hyun Chul Lee, Kyung Tae Kim
- South Korea, 20130702, 10-1291400, EFFICIENT BATCHING IN MOBILE IPTV USING CSD(COMBINING STATIC MULTICASTING WITH DYNAMIC MULTICASTING, Hee Yong Youn, Chi Hyun Cho, Kyung Tae Kim
- South Korea, 20130702, 10-1291400, EFFICIENT BATCHING IN MOBILE IPTV USING CSD(COMBINING STATIC MULTICASTING WITH DYNAMIC MULTICASTING, Hee Yong Youn, Chi Hyun Cho, Kyung Tae Kim
- South Korea, 20130512, 10-1282786, DYNAMIC LOAD BALANCING AND AGENT POOL REDUCING RESPONSE TIME IN PERVASIVE COMPUTING ENVIRONMENT, Hee Yong Youn, Young Joon Lee, Geon Yong Park, Ho Geun Song
- South Korea, 20130205, 10-1270813, CONTEXT INFERENCE USING DEMPSTER SHAFER THEORY IN PERVASIVE COMPUTING ENVIRONMENT, Hee Yong Youn, Zhong Yuan Li, Seungwook Han
- South Korea, 20130202, 10-1196605, PREDICTION-BASED DYNAMIC LOAD BALANCING UTILIZING AGENT MIGRATION IN MULTI-AGENT SYSTEMS, Hee Yong Youn, Hyungdo Lee, Seunwook Han
- America, 20130110, No. 8,296,454, PREDICTION-BASED ADJUSTMENT OF DYNAMIC THREAD POOL AND AGENT PLATFORM, Hee Yong Youn, KChi Hyun Cho, Kyung Tae Kim
- South Korea, 20120104, 10-1104999, ENHANCED METADATA SERVICE PERFORMANCE THROUGH THE MASTER METADATA SERVER FOR CLOUD COMPUTING, Hee Yong Youn, Chang Hun Lyu, Sun Sik Park, Myung Jin Hwang
- South Korea, 20120102, 10-1103941, VERTICAL HANDOVER BASED ON THE PREDICTION OF MOBILITY OF MOBILE NODE, Hee Yong Youn, Byung Jun Lee, Kyung Tae Kim
- South Korea, 20111103, 10-1081933, AN ENERGY EFFICIENT ROUTING PROTOCOL IN WIRELESS SENSOR NETWORKS, Hee Yong Youn, Kyung Tae Kim, Jae Hyun Choi, Byung Jun Lee
- South Korea, 20111103, 10-1081932, APPARATUS AND METHOD OF LOAD DISPERSION IN MULTI-AGENT SYSTEM, Hee Yong Youn, Seung Wook Han, Sung Keun Song, Byung Ha son, Myung Jin Hwang, Seung Yup Shin, Yong Hee Lee
- South Korea, 20111027, 10-1079477, LOAD BALANCING SCHEME REFLECTING THE WORKLOAD OF AGENT, Hee Yong Youn, Seung Wook Han, Yong Hee Lee, Chang Hun Yoo

- South Korea, 20111027, 10-1079389, CA-MAC: CONTEXT ADAPTIVE MAC PROTOCOL FOR WIRELESS SENSOR NETWORKS, Hee Yong Youn, Hyun Chul Lee, Kyung Tae Kim, Myung Jin Hwang
- America, 20110419 , No. 7,929,479, METHOD AND SYSTEM FOR MVS OVER MMR NETWORK USING DYNAMIC MODIFICATION OF MCS LEVEL, Hee Yong Youn, Chi Hyun Cho
- America, 20110329 , No. 7,916,017, SECURITY METHOD OF SYSTEM BY ENCODING INSTRUCTIONS Hee Yong Youn, Gi Young Jang
- America, 20110118 , No.7,873,167, SYSTEM AND METHOD FOR EFFECTIVELY PRE-DISTRIBUTING KEY FOR DISTRIBUTED SENSOR NETWORK, Hee Yong Youn, Sung Jin Choi
- South Korea, 20101230, 10-1006662, CONTEXT AWARENESS MODELING METHOD AND SYSTEM FOR CONTEXT AWARENESS COMPUTING, Hee Yong Youn, Seung Wok Han, Sung Keun Song, Yong Hee Lee, Jae Duk Yoo
- South Korea, 20100713, 10-0971351, METHOD FOR TRANSMITTING NEAR VIDEO ON DEMAND (NVOD) USING CATCH AND REST (CAR) AND SUB-CHANNELS, Hee Yong Youn, Jong ik Jang
- South Korea, 20100531, 10-962994, METHOD AND SYSTEM FOR MVS OVER MMR NETWORK USING DYNAMIC MODIFICATION OF MCS LEVEL, Hee Yong Youn, Chi Hyun Cho
- South Korea, 20100730, 10-0974271, SYSTEM AND METHOD FOR RELAYING MULTICAST BROADCAST SERVICE, Hee Yong Youn, Chi Hyun Cho
- South Korea, 20091001, 10-0921155, AGENT PLATFORM, MULTI AGENT SYSTEM AND MESSAGE TRANSMITTING/RECEIVING METHOD OF AGENT PLATFORM AND MULTI AGENT SYSTEM, Hee Yong Youn, Yang Suk Youn
- America, 20101228 , No. 7,860,938, AGENT PLATFORM, MULTIAGENT SYSTEM AND MESSAGE TRANSMITTING/RECEIVING METHOD THEREOF, Hee Yong Youn, Yang Suk Youn
- South Korea, 20090122, 10-0881112, OPERATING METHOD OF WIRELESS SENSOR NETWORKS CONSIDERING ENERGY EFFICIENCY, Hee Yong Youn, Gi Young Jang
- South Korea, 20090604, 10-0902478, AGENT PLATFORM , Hee Yong Youn, Sung Wook Hwang
- South Korea, 20091001, 10-0921152, AGENT PLATFORM, Hee Yong Youn, Ae Hee Park
- South Korea, 20090205, 10-0883517, PREDICTION-BASED DYNAMIC THREAD POOL MANAGEMENT METHOD AND AGENT PLATFORM USING THE SAME, Hee Yong Youn, Ji Hun Kim
- America, 20100119 , No. 7,650,375, QUANTITATIVE ESTIMATING SYSTEM FOR GROUPING OF MULTIAGENT AND METHOD THEREOF, Hee Yong Youn
- America, 20100413 , No, 7,697,562, APPARTUS AND METHOD FOR TRANSMITTING DATA IN A WIRELESS LOCAL AREA NETWORK, Hee Yong Youn
- South Korea, 20080205, 10-0803579, QUANTITATIVE ESTIMATING SYSTEM FOR GROUPING OF MULTIAGENT AND METHOD THEREOF, Hee Yong Youn, Hyun Go

- South Korea, 20081105, 10-0868323, EVENT FILTERING SYSTEM AND METHOD THEREOF Hee Yong Youn, Kyu Bong Cho
- South Korea, 20071105, 10-0775504, TARGET DETECTION SYSTEM FOR SAVING ENERGY CONSUMPTION AND METHOD THEREOF, Hee Yong Youn, Thanh Hai Trinh
- South Korea, 20080312, 10-0814645, EFFICIENT KEY PRE-DISTRIBUTION METHOD FOR SECURE DISTRIBUTED SENSOR NETWORKS, Hee Yong Youn, Sung Jin Choi
- South Korea, 20070130, 10-0679091, PACKET SCHEDULING APPARATUS IN BLUETOOTH ENVIRONMENTAL AND METHOD THEREOF, Hee Yong Youn, Hye Hwan Ahn, Eung Ju Lee
- South Korea, 20070628, 10-0735667, CORBA-BASED ADAPTIVE BRIDGING POOL SYSTEM AND METHOD THEREOF, Hee Yong Youn, Sung Keun Song
- South Korea, 20061212, 10-0659172, CLUSTERING SYSTEM CAPABLE OF PROXY IN WIRELESS SENSOR NETWORK AND METHOD THEREOF, AND RECORDING MEDIUM THEREOF, Hee Yong Youn, Sang Yong Park
- South Korea, 20070213, 10-0684497, CLUSTERING SYSTEM CAPABLE OF PROXY IN WIRELESS SENSOR NETWORK AND METHOD THEREOF, AND RECORDING MEDIUM THEREOF, Hee Yong Youn, Kyung Tae Kim
- South Korea, 20070628, 10-0735669, CORBA-BASED ADAPTIVE BRIDGING POOL SYSTEM AND METHOD THEREOF, Hee Yong Youn, Hyun Go
- South Korea, 20080630, 10-0844101, DYNAMIC WINDOW-BASED ADAPTIVE FAULT MONITORING SYSTEM AND METHOD THEREOF, Hee Yong Youn, Soo Myung Lee
- South Korea, 20061121, 10-0650389, INDEXING SYSTEM OF MOVING OBJECTS USING TIME-BASED PARTITIONING WITH SECOND-DIMENSIONAL STRUCTURE AND METHOD THEREOF, Hee Yong Youn, Youn Chul Jung
- South Korea, 20070510, 10-0718907, LOAD BALANCING SYSTEM BASED ON FUZZY GROUPING AND THE LOAD BALANCING METHOD, Hee Yong Youn, Hyo Chul Ahn

Name of the course: Structure and application of smart IoT
Overview

The modern IT infrastructure has been built based on smart computing paradigm. This course consisting of two sections covering the key concept of information and communication technologies used to implement smart environment. The main topics are wireless networking allowing information sharing anytime anywhere, distributed software technology providing customized services, various smart devices such as RFID/Tag, ubiquitous society and service issue, key technologies for intelligent system, and new computing paradigm such as edge computing and pervasive computing.

Course objectives

Smart IoT needs to integrate numerous heterogeneous computing devices into every-day environment. These devices are portable and embedded in the environment such as home, office, etc., and they collaborate with each other to provide intelligent services to the users. The services should perceive not only the user requirements but also the context of the environment. This course is for introducing the fundamental issues related to the design, operation, and management of smart IoT system. The objectives are achieved through the lectures on the state-of-the-art technologies required to build smart IoT including distributed ubiquitous computing, HCI, intelligent system, tagging & sensing, context awareness, mobile edge computing, etc.

Course details for Smart IoT I

Date	Topic	Details
Day 1	Introduction to smart IoT	- Definition and basic concept of smart IoT - Various technologies that were precursors to the current day idea of smart IoT
Day 2	Basic structure of smart IoT	- Utility and application of smart IoT - Main components of smart IoT
Day 3	Application of smart IoT	- Evolution of smart IoT projects - Everyware Ubicomp applications, M/U-Commerce, Home Automation
Day 4	Smart distributed system	- Evolution of various distributed device interaction models - Concept of mobile distributed system and middleware, service provisioning
Day 5	Human computer interaction	- The human in the loop, challenges owing to the unpredictability of human beings, specific GUIs, implicit HCI - Understanding multimodal devices and UI/UX



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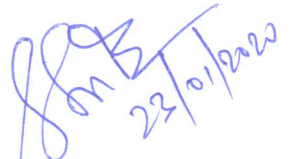
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Details of Professor & Course:

Name of the Professor	Prof. Dr. Hee Yong Youn (CV Attached)
University & Country	Sungkyunkwan University, South Korea
Title of the Course	Structure and application of smart IoT
Department	Electronics and Communication Engineering
Dates of the Course	February 10 to 14, 2020
Total No. of Hours	15
No. of Credits	1
Category	Industry/ Higher Institute Learning
Course Content	Attached

Prepared by: 

Coordinator – Directorate of Intl. Relations

Forwarded by: 

Director – Directorate of Intl. Relations


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Vice Chancellor

Prof. V. S. S. Kumar
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Course code:

1157 EC940

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SCHOOL OF ELECTRICAL AND COMMUNICATION

DEPARTMENT OF ECE

VTU R15 B.TECH – ECE

ACADEMIC YEAR 2019-2020

SPECIALIZED COURSE ATTENDANCE

FACULTY HANDLED: PROF.DR. HEE YONG YOUN, COLLEGE OF SOFTWARE SUNGKYUNKWAN UNIVERSITY SUWON, KOREA

COURSE CATEGORY: INDUSTRY/HIGHER LEARNING INSTITUTE INTERACTION

COURSE CODE/TITLE: STRUCTURE AND APPLICATION OF SMART IOT

SEMESTER: EVEN

S.NO	VTU NO	NAME	10.2.20		11.02.2020				12.2.20		13.2.20		14.2.20					Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1.	vtu10250	C REDDY VENKATA SAI GEETHA	1	2	3	4	A	A	5	6	7	8	9	10	11	12	13	Geetha
2.	vtu10251	SREEJA KUMARI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Sreeja
3.	vtu11324	ANKIT PRADHAN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Ankur
4.	vtu14995	K.SOMASEKHAR REDDY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Ross
5.	vtu7305	RAGHAVA S	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
6.	vtu7336	VENKATA CHAITANYA C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C.V. Chaitanya
7.	vtu7346	SAI CHARITHA N	1	2	3	4	5	6	7	8	9	A	10	11	12	13	14	Sai Charitha
8.	vtu7350	SATYA MANIKANTA HARSH.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
9.	vtu7380	SASIDHAR REDDY P	—	—	A	1	2	3	4	5	6	7	8	9	10	11	12	P. Sase
10.	vtu7412	RAKESH KUMAR REDDY P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	P. Rakesh
11.	vtu7435	HARSHA VARDHAN REDDY M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Harsha
12.	vtu7450	SULTHAN NAWAAZ M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Sultan
13.	vtu7458	TEJESH T	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	Tejesh
14.	vtu7467	VADDI DEVIKA.	1	2	A	3	4	5	6	7	A	A	8	9	10	11	12	V. Devika
15.	vtu7480	NEELES YADAV.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	N. Yadav
16.	vtu7769	RAMANA REDDY M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Ramana
17.	vtu7783	PAWAN KUMAR	1	2	3	4	5	6	7	8	A	A	9	10	11	12	13	Pawan
18.	vtu7794	AKKIMI VEERAREDDY.	A	A	A	1	2	3	4	5	6	7	8	9	10	11	12	Akimi
19.	vtu7800	AAKUMALLA BRAHMAREDDY.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A. Brahma
20.	vtu7812	SHAIK SHABEER HUSSAIN.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Shabeer

21.	vtu7831	MEKAPOTHU MALLA REDDY.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
22.	vtu7834	ANAKANA GURUMOHAN REDDY.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A. Reddy
23.	vtu7848	KOPPOLU GOPINATH REDDY.	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	K. Gopinath
24.	vtu7880	CHAKALI SHIVA SHANKAR.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Shiva Shankar
25.	vtu7884	C SAI NAVEEN KUMAR REDDY.	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	navleen
26.	vtu7890	DEVAREDDY VAMSI.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
27.	vtu7898	SREEKANTH REDDY D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
28.	vtu7963	KOLLI SRAVANI.	1	A	2	3	4	5	6	7	A	A	8	9	10	11	12	S. Ravani
29.	vtu8000	PANDA DURGA PRASAD.	1	A	2	3	4	5	6	7	A	A	8	9	10	11	12	P. Durga Prasad
30.	vtu8009	BENNADA JAYANAGA TEJA.	1	2	3	4	A	A	5	6	7	8	9	10	11	12	13	B. Jayanaga Teja
31.	vtu8034	MULAPARTHI JANAKI RAM.	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	M. Janaki Ram
32.	vtu8052	SAI NARAYANA P V N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	S. Narayana P V N
33.	vtu8082	KANDATI VEENA.	1	2	A	3	A	A	4	5	6	7	8	9	10	11	12	K. Veena
34.	vtu8181	KUMMARA NAVEEN.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	K. Naveen
35.	vtu8221	PALUGULA MANIKANTA REDDY	1	2	3	4	A	A	5	6	7	8	9	10	11	12	13	P. Manikanta Reddy
36.	vtu8362	JINKA SURENDRA BABU.	-	-	A	1	2	3	4	5	6	7	8	9	10	11	12	J. Surendra Babu
37.	vtu8385	PUNNAMANENI MANIKANTA SAI.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
38.	vtu8423	VELPURI SRIKANTH.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	V. Srikanth
39.	vtu8501	SUBASH DAS	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	S. Das
40.	vtu8547	SAMA SUMANTH	1	2	3	4	5	6	7	8	A	A	9	10	11	12	13	S. Sumanth
41.	vtu9023	K JAYA SAI TEJA	1	2	A	A	A	A	A	A	A	A	A	A	A	A	A	
42.	vtu9218	PITLA PRALAVACHARITHA	1	2	3	4	5	6	7	8	A	A	9	10	11	12	13	P. Pralavacharitha
43.	vtu9343	KATTA SURESH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	K. Suresh
44.	vtu9383	M VISHNU SAI PAVAN REDDY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
45.	vtu9416	EATI ISWARYA LAKSHMI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	E. Iswarya Lakshmi
46.	vtu9609	GADDITI SASIDHAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	G. Sasidhar
47.	vtu9629	B PRATHYUSHA REDDY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	B. Prathyusha Reddy
48.	vtu9643	NARNE VINAY KRISHNA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	N. Vinay Krishna
49.	vtu9836	NELLURU HARISH KUMAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	N. Harish Kumar

HOD

S No	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Course Code	Course Name	Stu_Subject_PassFail	Stu_Grade
1	VtU10250	CHINTHAMREDDY VENKATA SAI GEETHA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
2	VtU10251	SREEJA KUMMARI	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
3	VtU9218	PITLA PRANAVA CHARITRA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
4	VtU9629	BHUMIREDDY PRATHYUSHA REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
5	VtU9416	EATI ISWARYA LAKSHMI	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
6	VtU7848	KOPPOLU GOPINATH REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
7	VtU8181	KUMMARA NAVEEN	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
8	VtU9836	NELLURU HARISH KUMAR	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
9	VtU7963	KOLLI SRAVANI	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	B
10	VtU7380	POLIMERA SASIDHAR REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
11	VtU7435	MANNURU HARSHA VARDHAN REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	RA	RA
12	VtU8034	MULAPARTHI JANAKI RAM	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	A
13	VtU9643	NARNE VINAY KRISHNA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
14	VtU9383	MUNNANGI VISHNU SAI PAVAN REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
15	VtU9609	GADDETI SASIDHAR	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
16	VtU7890	DEVAREDDY VAMSI	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
17	VtU7880	CHAKALI SHIVA SHANKAR	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
18	VtU7884	CHAMMIREDDY SAI NAVEEN KUMAR REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
19	VtU7467	VADDI DEVIKA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
20	VtU8009	BENNADA JAYANAGA TEJA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	B
21	VtU7305	SAMUDRALA RAGHAVA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
22	VtU7769	MEDAGAM RAMANA REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
23	VtU9343	KATTA SURESH	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	RA	RA
24	VtU8000	PANDA DURGA PRASAD	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
25	VtU7450	MOHAMMED SULTHAN NAWAAZ	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	B
26	VtU8362	JINKA SURENDRA BABU	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
27	VtU8082	KANDATI VEENA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
28	VtU7794	AKKIMI VEERAREDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
29	VtU8423	VELPURI SRIKANTH	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	RA	RA
30	VtU8221	PALUGULA MANIKANTA REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
31	VtU8385	PUNNAMANENI MANIKANTA SAI	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
32	VtU7458	TIRUPATHI TEJESH	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
33	VTU8547	SAMA SUMANTH	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
34	VtU9023	KAMEPALLI JAYA SAI TEJA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
35	VtU7412	PULICHERLA RAKESH KUMAR REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	RA	RA
36	VtU7336	CHINTALA VENKATA CHAITANYA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
37	VtU7346	NALLAKA SAICHARITHA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	C
38	VtU7350	DULAM SATYA MANIKANTA HARISH	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
39	VtU7812	SHAIK SHABBER HUSSAIN	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE

S No	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Course Code	Course Name	Stu_Subject_PassFail	Stu_Grade
40	VtU8052	PENTAPATI VINAY NAGENDRA SAI NARAYANA	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
41	VtU7834	ANKANA GURUMOHANREDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	B
42	VtU14995	KEESARI SOMA SEKHAR REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	B
43	VtU7898	DADHIREDDY SREEKANTH REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
44	VtU7831	MEKAPOTHU MALLA REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	NE	NE
45	VtU7800	AKUMALLA BRAHMA REDDY	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	Pass	D
46	VtU7783	GURRAM PAWAN KUMAR	B.Tech	ECE	1157EC944	Structure and Application of Smart IoT	RA	RA



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Professor's Feedback

Name & University	Prof. Dr. Hee Yong Youn, Sungkyunkwan University, South Korea, South Korea
Course Title	Structure and Application of smart IoT (15Hrs/ 1 credit)
Course Duration	February 10 to 14, 2020
Department	Electronics and Communication Engineering
No of Participants	42 students

Your feedback about course offered (Such as level of Students Participation, arrangements, Coordination etc.,).

Students Participation: Most students were attentive, while some students were very interactive showing deep interests in the course materials

Arrangements: Everything was in order, and the lecture equipment and facilities were arranged properly

Coordination: The coordination personnel were very helpful for organizing the lectures and proctoring the test

Overall experience at Vel Tech

I noticed that Vel Tech has quite lively and animated atmosphere. The students seem eager to learn and perceive state-of-the-art technologies and the culture abroad. I have had such good impression on Vel Tech as flourishing high tech college.

I also met a faculty member, Prof. Ritwik Haldar, who has common research interest with me. We are coauthoring research papers, and my visit to Vel Tech allows us valuable and tangible opportunity of global collaboration.

Would you like to visit Vel Tech again? Why?

I would like to visit Vel Tech again since I would like to interact with such motivated students and offer lectures which will be beneficial to them. It will also enable me to conduct research with the faculty member in Vel Tech.

Any other Suggestions:

The classroom size needs to be adjusted according to the number of attendees.

(Signature of Professor)A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end.



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Our Ref. No: 2019-2020/ VF 221 & 222

Your Ref. No:

Submitted for the Approval:

Name : Prof. Dr. Hee Yong Youn

University : Sungkyunkwan University, South Korea

Course Titles : 1. Structure and Application of smart IoT
2. Hardware & Software components for building Smart IoT

Department : Electronics and Communication Engineering

Course Dates: Course1- February 10 to 14, 2020
Course 2- February 17 to 21, 2020

Duration : 15 Hrs each

No. of credits: 1 each (Under Higher Institute Learning)

No. of Students: Course 1- 42 Students ✓

Course 2- 21 Students ✓

Sl.No	Description	Amount in INR	Amount in USD
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90,000	1251 ✓
2	Flight ticket reimbursement	47,518	651 ✓
	Total	1,37,518	1902

(Rupees One lakh thirty seven thousand five hundred and eighteen only)

In this regard, I request your approval for transferring the amount in USD to the following Account,

Name : Hee Yong Youn

Bank Name: Kookmin Bank

Acc. No : 298-21-0131-261

Swift Code : CZNBKRSE

Branch : Jeongja

Thank You,

S. Sivaperumal

Dr. S. Sivaperumal
Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Entered in Budget Register

PG. 11 81.53

atshorwar
26/02/2020



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. as of UGC Act, 1956)

Our Ref. No.: 2019-2020/VF 221 & 222

Your Ref. No.:

Submitting for the Approval:

Madam,

Sub: Requesting approval for Flight Ticket booking

The following professor accepted to deliver short courses to our Electronics and Communication Engineering students. Requesting approval for reimbursing the following flight ticket.

Name : Prof. Dr. Hee Yong Youn (CV attached)

University & Country: Sungkyunkwan University, South Korea

Course Titles : 1. Structure and application of smart IoT
2. HW and SW components for building smart IoT

Course Dates : February 10 to 21, 2020

Duration : 15 Hrs each

No. of credits : 1 each (Under Higher Institute Learning)

Flight Details:

Flight	Date of Journey (Onward & Return)	Cost of the ticket in INR
South Korea to Chennai & return with travel Insurance (647700+ 142400 = 790100 Korean Won)	08 FEB, 2020 & 29 February, 2020	47,518 ✓
	TOTAL	47,518

Attached the flight tickets with this letter.

Reimbursement Fare : INR 47518 (Forty seven thousand five hundred and eighteen only)

Thank you

Sivaperumal S

8803 2/10/2020

[Signature]



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical and communication
Department of Electronics and Communication
Engineering

Specialized one credit course on
“HW and SW Components for Smart IoT”
(1157EC941)

by
Prof. Dr. Hee Yong Youn
Sungkyunkwan University, South Korea



Held on
Date: February 17 to 21, 2020

Curriculum Vita

Hee Yong Youn
College of Software
Sungkyunkwan University
Suwon, Korea
(031)290-7147, 010-9124-3008, youn7147@skku.edu

- **EDUCATION**

- Ph.D. in Computer Engineering, Univ. of Massachusetts, Amherst, Sept. 1988.
- M.S. in Electrical Engineering, Seoul National University, Seoul, Korea, Feb. 1979.
- B.S. in Electrical Engineering, Seoul National University, Seoul, Korea, Feb. 1977.

- **EXPERIENCE**

- Teaching and Research
 - Endowed Professor, College of Information and Communication Engineering, Sungkyunkwan University, Korea (Sept. '00 - present)
 - Director, Ubiquitous computing Technology Research Institute (UTRI), Sungkyunkwan University, (Oct. '03 – present)
 - Consulting Professor, Samsung DS Software Center, (Aug. '13 – present)
 - Associate Professor (tenured), The Univ. of Texas at Arlington (June '93 - Aug. '00)
 - Assistant Professor, The Univ. of Texas at Arlington (June '91 - May '93), Univ. of North Texas (Sept. '88 - May '91)
 - Taught undergraduate and graduate courses - Computer Architecture, Advanced Computer Architecture, Operating Systems, Computer Network, Digital Logic Design, Computer System Performance Evaluation, Microcomputer System Design, Parallel Computing, Theoretical Computer Science, Fault Tolerant Computing, Senior Design, Ubiquitous Computing, Mobile Communication
 - Research on parallel and distributed computing, mobile computing, RFID/USN, middleware, ubiquitous computing, fault-tolerant computing
- Industrial
 - Senior Researcher, Gold Star Precision Co., Central Research Lab., Korea. (Jan. 1979 - July 1984)
 - ✓ Supervisor of Computer System Lab
 - ✓ R&D of CPU for commercial and military application systems
 - Consultant
 - ✓ Samsung SW Center, (July 2013 ~ present)
 - ✓ IBM Korea (Sept. 2014 ~ present)

- **AWARDS**

- *Best Development Award* of the year of 1983 for "Computerized Color Radar System", awarded by the President of Korea.
- *Outstanding Paper Award* in the 8th Int'l Conference on Distributed Computing Systems, June 1988
- *Best Paper Award* in 1992 Supercomputing, Nov. 1992
- Elected as a *Lecturer* of ACM Lectureship Series, Aug. 1993
- *Best Paper Award* in the Spring Conference of Korean Society for Internet Information, May 2001.

- *Excellence award* for the development of intelligent agent platform, Korea Software Technology Association, Nov. 2010.
- *Best Paper Award* in 2012 IEEE Int'l Conf. on Computer, Information and Telecommunication Systems (CITS).
- *Best Paper Award* in 2014 The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC)

• **ACTIVITIES**

- *Panel member of NASA Center of Excellence in Space Data and Information Science* (1993 - 1995)
- *Senior Member of IEEE Computer Society and listed in Who's who America* (1996 – Present)
- *General Chair of CyberC 2010*
- *Editor of Journal of Pervasive Mobile Computing, Elsevier, (2010 – Present)*
- *General Chair of 2009 Int'l Conf. Ubiquitous Computing Systems*
- *Editor-in-Chief of Journal of Information Processing Systems (2007-2009)*
- *Keynote speaker of 2009 2nd Int'l Conf. on Intelligent Computation Technology and Automation*
- *General Chair of ACM UbiComp 2008*
- *Program Chair of 2007 Int'l Conf. Ubiquitous Computing Systems*
- *Program Chair of IEEE SEUS 2005*
- *Steering Committee member of IEEE PRDC (2000 – Present)*
- *Program Chair of 2003 ISCTA PDCS*
- *General Chair of 2002 IEEE PRDC*
- *Program Committee and Organizing Committee member of Int'l Symposiums (1990 - Present)*
 - ✓ Int'l Conf. on Distributed Computing Systems (ICDCS)
 - ✓ Int'l Performance, Computing, and Communications Conf. (IPCCC)
 - ✓ Int'l IEEE Pacific Rim Symp. on Dependable Computing (PRDC) (Will host the conference in Korea in 2001 as a General Chair)
 - ✓ Int'l Conf. on Computer Communications and Networks (ICCCN)
 - ✓ Int'l Workshop in Fault-tolerant Embedded Systems (IWFES)
 - ✓ Int'l Conf. on Applied Computing (IAC)
 - ✓ IEEE PWN, PECCS, ICCCN 2007/2008, SRDS 2006, SUTC 2008, Euro-SSC 2007, AMOC 2007, MWN 2003, IASTED HCI-2007, ICOIN 2004, IPCCC 2002, PerComp 2007, ISORC 2005, WOWMOM 2002, DEPEND 2010, NPC 2009, SCAFT 2011, CPSCOM 2011, IASTED WOC 2007, ICSN 2007, MoMM 2011
- *Referee for technical journals and conferences (1990 – Present)*
- *General Secretary of Korean Computer Scientists and Engineers Association in America (1994 1999)*
- *President of North Texas Chapter of Korean Scientists and Engineers in America (1995 - 1996)*
- *Committee member for New Technology Development, Ministry of Commerce, Industry & Energy, Korea (2000 – 2007).*
- *Project Leader for Midrange Development Project, Ministry of Commerce, Industry & Energy, Korea (2000 – 2007).*
- *Vice President of Korea Information Processing Society, (2006 – 2008); Steering Committee Member (2009 – Present)*
- *Chairperson of Committee for Roadmap for RFID/USN, Ministry of Information and Communication (2006-2008)*
- *Chairperson of Committee for Roadmap for U-Computing, Ministry of Information and Communication (2007-2008)*
- *Board Member of Committee for Recommendation of Engineering Award, Korea Science Foundation, (2008)*
- *Committee Member of New Excellence Technology Award, Korea Industrial Technology Association, (2001-Present)*
- *Committee Member of Strategic Planning Committee, Ministry of Education & Science, (2007-2009)*

- *Committee Member* of Quality Assurance for National Defense, Defense Agency for Technology and Quality, (2009-2010)
- *Advisory Board Member* of Korea Institute of Science and Technology Information, (2009-Present)
- *Committee member* of e-Learning Contents Evaluation, Korea Research Institute for Vocational Education & Training, (2002-2008)
- *Committee Member* of 2010 IT Strategic Planning Committee, Korea Institute for Advancement of Technology, (2010)
- *Committee Member* of Seoul City Academia-Industry Collaboration Project Evaluation Committee, Seoul Development Institute, (2010-Present)
- *Committee Member* of Basic Research Evaluation Committee, Defense Acquisition Program Administration, (2010-Present)

• **SELECTED GRANTS**

- 'Performance Enhancement of Multistage Interconnection Networks,' UNT, \$10000, 1988 - 1989.
- 'High Performance Fault Tolerant Multiprocessor Architectures in VLSI/WSI,' NSF, \$60000, 1990 - 1992.
- 'Algorithm-Based Fault-Tolerance for Processor Arrays,' UTA, \$20000, 1991 - 1993.
- 'A Digital System for Data Acquisition in the Detectors at the Superconducting Super Collider,' Texas State, \$190000, 1992 - 1994.
- 'Real-time Scheduling for Multiprocessor Systems,' Texas State \$7000, 1994.
- 'Scheduling and Synchronization of Multimedia Data for VOD System,' LGCIT, \$6000, 1995.
- 'Scalable Distributed Parallel Logic Simulation for Large Deep Submicron VLSI Designs,' NSF, \$70,000, (Subcontract \$15000), 1995 - 1996.
- 'A Workshop on New Challenges and Directions for Systems Research,' NSF, \$10000, 1997 - 1998.
- 'Enhancement of SES/Workbench for Parallel and Distributed System,' SES, \$300000, 1998 - 1999.
- 'Research and Development of Network Computing Platform,' LGCIT, \$8000, 1998 - 1999.
- 'A Senior Design Project Lab.: Platform Independent Remote Data Acquisition and Control over the Internet,' NSF, \$24300, 1999 - 2002.
- 'Modeling and Evaluation of Mobile Systems,' Texas State \$10,500, 1999.
- 'Reliable and Fault-tolerant Distributed System for Mobile Environment,' Ministry of Information and Communications, ₩50,000,000, 1999 - 2000.
- 'Scalable Membership Service for Group Communications,' ETRI, ₩50,000,000, 2000.
- 'SES/Workbench and Strategizer Implementation,' Hyperformix, \$1,600,000 (Software grant), 2000.
- 'Embedded OS-based Wireless Multimedia Access Module in Personal Network,' KOSEF, ₩30,000,000, 2000-2003
- 'Linux File System for Storage Area Network,' Webbaw, ₩15,000,000, 2001.
- 'Development of Optical Switch for Storage Area Network,' Gyunggido, ₩20,000,000, 2001.
- 'Specialization Project,' SKKU, ₩600,000,000, 2002-2005
- 'Curriculum Renovation of IT Department,' Ministry of Information and Communications, ₩300,000,000, 2003-2005 (participant).
- 'Vulnerability Analysis of Distributed Storage and Detection of Attack,' KISA, ₩24,000,000, 2003-2004
- 'Performance Optimization and Development of Performance Evaluation Tool for Internet Link,' Gyunggido, ₩20,000,000, 2003.
- 'Actie Storage Clustering File System,' Webbaw, ₩25,000,000, 2003.
- 'Network Storage System for High Availability and High Survivability,' KISA, ₩32,333,000, 2003-2004.

- 'Storage System for Channel-based Input/Output,' Korea Electronics Technology Institute, ₩200,000,000, 2002-2006.
- 'Roadmap Development of Contents Storage/ Marketing/ Management,' Korea Creative Contents Agency, ₩20,000,000, 2002-2003
- 'Development of E-commerce System in wired/wireless Environment,' Ministry of Education, Korea, ₩600,000,000, 2003-2005.
- 'Development of community computing middleware for autonomous context-awareness,' The Ministry of information and Communication, ₩6,000,000,000, 2003-2008.
- 'Development of community computing middleware for autonomous context-awareness,' USA, ₩80,000,000, 2004-2005.
- 'Development of ubiquitous learning system using autonomous computing technology based on context-awareness,' Korea science foundation, ₩120,000,000, 2006-2009.
- 'Research on management technology of context information for USN application service,' ETRI, ₩140,000,000, 2006-2009.
- 'Research of Agent model for processing USN context information,' ETRI, ₩40,000,000, 2006-2007.
- 'Research and Development of Digital Product Memory,' Siemens, Germany, ₩60,000,000, 2007-2008.
- 'Context-aware and intelligent management technology development,' The Ministry of Information and Communication, ₩70,000,000, 2007-2008.
- 'Development of Mobile IP based Broadcast/Multicast protocol,' Samsung, ₩70,000,000, 2007-2008.
- 'Development of large-scale file processing system applying distributed file processing system based on cloud computing,' The Small and Medium Business Administration, ₩320,000,000, 2008-2010.
- 'Agent-based Intelligent Community Computing Middleware Technology Development,' IITA, ₩537,000,000, 2008-2009
- 'Development of agent technology for providing customized land information,' ETRI, ₩30,000,000, 2008-2009.
- 'Development of Agent Technology for personalized Homeland information,' ETRI, ₩30,000,000, 2008-2009.
- 'Research on extended specification of CC/PP for expansion, processing engine, embedded RFID middleware and ALE standard specifications,' The Ministry of Commerce, Industry and Energy, ₩100,000,000, 2008-2010.
- 'Research and Development on U-City Infrastructure Standard System,' Korea Institute of Construction & Transportation Technology Evaluation and Planning, ₩13,370,165,000, 2008-2010.
- 'Development of the USN based Convergence Service,' Korea Evaluation Institute of Industrial Technology, ₩2,000,000,000, 2009-2012.
- 'Research on Intelligent u-service Community-based Convergence Service Control,' ETRI, ₩70,000,000, 2009-2010
- 'Research on USN-based intelligent context-aware technology,' KIITECH, ₩150,000,000, 2009-2010
- 'Development of the technology for open semantic USN service platform,' Electronics and Telecommunications Research Institute, ₩30,000,000, 2011-2012.

- 'Development of the technology for smart phone-based mobile social network service (SNS) framework,' Ministry of Knowledge Economy, ₩40,000,000, 2011-2012.
- 'Multi-agent architecture for a distributed logistics simulation,' Agency for Defense Development, ₩150,000,000, 2011-2013.
- 'Wireless Measurement System for the Safety of Petroleum/Gas/Steel Plant,' Small Business Agency, ₩100,000,000, 2012-2014.
- 'Development of Intelligent Mashup Technology based on Semantic Sensor Web Utilizing Context Information,' Korea Research Foundation, ₩150,000,000, 2012-2015.
- 'Modeling of streaming large-scale linked data and big data processing technology,' Korea Communication Agency, ₩1,200,000,000, 2013-2016.
- 'Cloud computing platform based on SSD,' Samsung Electronics, ₩500,000,000, 2014-2017.
- 'Research on algorithm of FastData analysis for the hierarchical data stream processing environment,' ETRI, ₩35,000,000, 2015
- 'Development of inference mechanism for intelligent middleware,' UNITEF, Korea, ₩24,430,000, 2016
- 'Research on edge computing via collective intelligence of hyper-connection IoT nodes,' Korea Communication Agency, ₩2,550,000,000, 2016-2020
- 'Research on WSN Technology based on SDN Supporting Real-time Stream Data Processing and Multi-connectivity,' Korea Research Foundation, ₩500,000,000, 2017-2020.

- **UNIVERSITY SERVICES**

- Undergraduate advisor (at UTA)
- Faculty recruit committee member (at UTA)
- Research enhancement committee member (at UTA)
- Chairperson of Committee of Academia-Industry Faculty Association (at SKKU)
- Department Chair of Computer Engineering (at SKKU)
- Director of Ubiquitous Technology computing Research Institute (at SKKU)

PUBLICATION LIST

A. REFERRED JOURNALS

- A Novel Flow Management Scheme for SDN Switch of Multiple Flow Tables based on Flow Popularity, Cheng Wang, Kyung Tae Kim, Hee Yong Youn, accepted in Frontiers of Computer Science, 2019
- Management of Flow Table of SDN for Proactive Eviction Using Fuzzy Logic, Gan Huang, Hee Yong Youn, Journal of Information Science and Engineering, accepted in 2019
- Adaptive packet scheduling in IoT environment based on Q-learning, Donghyun Kim, Taeho Lee, Sejun Kim, Byungjun Lee, Hee Yong Youn, Journal of Ambient Intelligence and Humanized Computing, Vol 10, issue 58, p.1-11, 20190618
- Entry Aggregation and Early Match using Hidden Markov Model of Flow Table in SDN, Cheng Wang and Hee Yong Youn, Sensors, Vol 19, issue 10, p.1-20, 20190521

- Reduction of Training Data Using Parallel Hyperplane for Support Vector Machine, Pardis Birzhandi, Kyung Tae Kim, Byungjun Lee, Hee Yong Youn, Applied Artificial Intelligence, Vol 33, issue 6, p.497-516, 20190301
- CBCH (clustering-based convex hull) for reducing training time of support vector machine, Pardis Birzhandi, Hee Yong Youn, The Journal of Supercomputing, Vol 75, issue 266, p.1-19, 20190306
- A Novel Data Aggregation Scheme based on Self-Organized Map for WSN, Ihsan Ullah, Hee Yong Youn, The Journal of Supercomputing, Vol 75, issue 266, p.1-22, 20190124
- Dynamic Load Balancing of Software-Defined Networking Based on Genetic-Ant Colony Optimization, Hai Xue, KyungTae Kim, Hee Yong Youn, sensors, Vol 19, issue 2, p.1-17, 2019011
- Yi Li Wang and Hee Young Youn, "Feature Weighting Based on Inter-Category and Intra-Category Strength for Twitter Sentiment Analysis", Applied Sciences, pp.1-18, Dec. 2018
- Hai Xue, Kyung Tae Kim, Hee Yong Youn, "Packet Scheduling for Multiple-Switch Software-Defined Networking in Edge Computing Environment." Wireless Communications and Mobile Computing, pp.1-11, Nov. 2018.
- Yi Li Wang, Kyung Tae Kim, Byung Jun Lee, Hee Yong Youn, "Word clustering based on POS feature for efficient twitter sentiment analysis." Wireless Personal Communications, pp.1-19, Jun. 2018.
- Ihsan Ullah and Hee Yong Youn, "Statistical Multipath Queue-Wise Preemption Routing for ZigBee-Based WSN." Human-centric Computing and Information Sciences, pp.1-15, April. 2018.
- Yi Li Wang, Kyung Tae Kim, Byungjun Lee & Hee Yong Youn, "A novel buffer management scheme based on article swarm optimization for SSD", The Journal of Supercomputing, pp.1-19, Aug. 2017.
- Ruchi Sachan, Zahid Muhammad, Jaehoon (Paul) Jeong, Chang Wook Ahn, and Hee Yong Youn, "MABC: Power-Based Location Planning with a Modified ABC Algorithm for 5G Networks," Discrete Dynamics in Nature and Society, Vol. 2017, pp.1-13, July, 2017.
- Junseok Song, Kyung Tae Kim, Byungjun Lee, Sangyoung Kim and Hee Yong Youn, "A novel classification approach based on Naïve Bayes for Twitter sentiment analysis", KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS , Vol. 11, No.6, pp.2996-3011, June. 2017.
- Kyung Tae Kim and Hee Yong Youn, "Clustering of Nodes in Layered-Tree Topology for Wireless Sensor Networks", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, No.1, pp.252-260, Jan. 2017.
- Kyung Tae Kim and Hee Yong Youn, "A Dynamic Level-based Routing Protocol for Energy Efficiency in Wireless Sensor Networks", Journal of Internet Technology, Vol. 18, No.1, pp.11-21, Jan. 2017.
- Jung June Lee, Kyung Tae Kim and Hee Yong Youn, "Enhancement of congestion control of Constrained Application Protocol/Congestion Control/Advanced for Internet of Things environment", International Journal of Distributed Sensor Networks, Vol.12, pp.1-13, Nov. 2016.
- Xianda Chen, Kyung Tae Kim, Hee Yong Youn, "Integration of Markov Random Field with Markov Chain for Efficient Event Detection using Wireless Sensor Network", Computer Networks, Vol.108, pp.108-119, Oct. 2016.

- Tien-Khoi PHAN, HaRim JUNG, Hee Yong Youn, Ung-Mo KIM, "Efficient Evaluation of Maximizing Range Sum Queries in a Road Network", *IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS*, Vol. E99D, No. 5, pp.1326-1336, May. 2016.
- S.J. Choi, K.T. Kim and H.Y. Youn, "A novel key pre-distribution approach for high security and efficiency using LU-decomposition of matrix", *International Journal of Ad Hoc and Ubiquitous Computing*, Vol.23, pp.168-181, Jan. 2016.
- SHRIN AKTHER KHANAM AND HEE YONG YOUN, "A Web Service Discovery Scheme based on Structural and Semantic Similarity," *JOURNAL OF INFORMATION SCIENCE AND ENGINEERING*, pp.153-176, Jan. 2016.
- Kyung Tae Kim and Hee Yong Youn, "An Energy-Efficient and Scalable Routing Protocol for Distributed Wireless Sensor Networks," *Ad Hoc & Sensor Wireless Networks*, pp.192-212, Nov. 2015.
- Xianda Chen, Young Ho Suh, Seung Wan Kim and Hee Yong Youn, "Handover Management based on Asymmetric Nature of LTE-A HetNet using MCDM Algorithm," *Int'l Journal of Networked and Distributed Computing*, pp.250-260, Nov. 2015.
- Hee Jung Park, Kyung Tae Kim, Man Yun Kim and Hee Yong Youn, "Enhanced Hypervisor-based SSD Cache with Dynamic Cache Scanning and Allocation for Virtualized Cloud System," *Int'l Journal of Networked and Distributed Computing*, pp.224-233, Nov. 2015.
- Kyung Tae Kim, Man Youn Kim, Ji Hyeon Choi and Hee Yong Youn, "An Energy Efficient Clustering Algorithm for Maximizing the Lifetime of Wireless Sensor Network," *Int'l Journal of Networked and Distributed Computing*, pp.214-223, Nov. 2015.
- HaRim Jung, MoonBae Song, Hee Yong Youn and Ung Mo Kim, "Evaluation of Content-Matched Range Monitoring Queries over Moving Objects in Mobile Computing Environments," *Sensors*, pp.24143-24177, Sept. 2015.
- Nayoung Park, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn, "Effective Management of ReRAM-based Hybrid SSD for Multiple Node HDFS," *Int'l Journal of Networked and Distributed Computing*, pp.1-13, Aug. 2015.
- Xianda Chen, Kyung Tae Kim, Byungjun Lee and Hee Yong Youn, "DIHAT_Differential Integrator Handover Algorithm with TTT window for LTE-based systems," *EURASIP Journal on Wireless Communications and Networking*, pp.1-13, Oct. 2014.
- Kyungtae Kim and Hee Yong Youn, "A Stochastic and Optimized Energy Efficient Clustering Protocol for Wireless Sensor Networks," *Int'l Journal of Distributed Sensor Networks*, pp.1-12, March. 2014.
- Seungwok Han and Hee Yong Youn, "REFLECTING THE PERSPECTIVES OF MULTIPLE AGENTS IN DISTRIBUTED REASONING FOR CONTEXT-AWARE SERVICE," *Int'l Journal of Computational Intelligence Systems*, pp.700-711, May. 2013.
- Kyungtae Kim and Hee Yong Youn, "An Energy-Efficient Mac protocol Employing Dynamic Threshold for Wireless Sensor Network," *Int'l Journal of Distributed Sensor Network*, Vol. 2012, pp. 1 – 12, Sept. 2012.
- Seungwok Han and Hee Yong Youn, "Modeling and Analysis of Time-Critical Context-Aware Service Using Extended Interval Timed Colored Petri Net," *IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS-PART A: SYSTEMS AND HUMANS*, Vol. 99, pp. 1~11, Oct. 2011.

- SeokJin Im, Hee Yong Youn, Jintak Choi, and Jinsong Ouyang, ``A Novel Air Indexing Scheme for Window Query in Non-Flat Wireless Spatial Data Broadcast,’’ *JOURNAL OF COMMUNICATIONS AND NETWORKS*, VOL. 13, NO. 4, pp. 400-407, Aug. 2011.
- Seungwok Han and Hee Yong Youn, ``Petri net-based context modeling for context-aware systems,’’ *Artificial Intelligence Review*, Vol. 37, No. 1, pp. 43~67, May 2011.
- Sung Chune Choi and Hee Yong Youn, ``Dynamic Hybrid Replication Effectively Combining Tree and Grid Topology,’’ *Journal of Supercomputing*, Vol. 59, No. 3, pp. 1289~1311, Dec. 2010.
- Seungwok Han, Hee Yong Youn, and Ohyoung Song, ``Efficient category-based service discovery on multi-agent platform,’’ *Information Systems Frontiers*, Vol. 12, Dec. 2010.
- Minho Jo, Hee Yong Youn, and Hsiao-Hwa Chen, ``Intelligent RFID Tag Detection Using Support Vector Machine,’’ *IEEE Transactions on Wireless Communication*, Vol. 8, No. 10, pp. 5050~5059, Oct. 2009.
- Minho Jo, Hee Yong Youn, Si-Ho Cha, and Hyunseung Choo, ``Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability,’’ *IEEE Sensors Journal*, Vol. 9, No. 2, pp. 112~119, Sept. 2009.
- SeokJin Im and Hee Yong Youn, ``A Cell-based Hybrid Indexing Scheme for Energy Conserving k Nearest Neighbor Search on Air,’’ *IEICE Transactions on Information*, Vol. E91-B 11, pp. 3799-3802, Nov. 2008.
- Minho Jo and Hee Yong Youn, ``Intelligent recognition of RFID tag position,’’ *IET Electronics Letters*, Vol. 44, No. 4, pp. 308-309, Feb. 2008.
- Ae Hee Park, So Hyun Park, and Hee Yong Youn, ``A Flexible and Scalable Agent Platform for Multi-Agent Systems,’’ *WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY*, Vol. 21, pp.1-6, Jan. 2007.
- Saehoon Kang, Younghee Lee, Dongman Lee, and Hee Yong Youn, ``A Landmark-based Scalable Semantic Resource Discovery Scheme,’’ *IEICE Transactions on Information and Systems '07*, Vol.E90-D, No.6, pp.986-989, June 2007.
- Stephen F. Jenks, Kane Kim, Yuqing Li, Sheng Liu, Liangchen Zheng, and Hee Yong Youn, ``A middleware model supporting time-triggered message-triggered objects for standard Linux systems,’’ *Real-Time Systems '07*, Vol.36, No.1-2, pp.75~99, July 2007.
- Si-Ho Cha, Jong-Eon Lee, Minho Jo, Hee Yong Youn, Seokjoong Kang, and Kuk-Hyun Cho, ``Policy-Based Management for Self-Managing Wireless Sensor Networks,’’ *IEICE Transactions on communications '07*, Vol.E90-B, No.11, pp.3024-3033, Nov. 2007.
- Wonyong Yoon, Dongman Lee, Hee Yong Youn, and Seungik Lee, ``A Combined Group/Tree Approach for Scalable Many-to-Many Reliable Multicast,’’ *Elsevier Computer Communications Journal*, Vol. 29, No. 18, pp. 3863-3876, Nov. 2006.
- Hyun Ko and Hee Yong Youn, ``Adaptive Bridging with Portable Interceptor for Efficient Integration of Reflective Middleware,’’ *Lecture Notes in Computer Science Vol.4159*, pp.669-678, Sept. 2006.
- Kyung Tae Kim, Hyunsoo Kim, and Hee Yong Youn, ``Optimized Clustering for Maximal Lifetime of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.4097*, pp.465-474, Aug. 2006.

- Hyung Su Lee, Byunghun Song, and Hee Yong Youn, ``A Study on the Indoor Real-Time Tracking System to Reduce the Interference Problem,’’ *Lecture Notes in Computer Science Vol.3994*, pp. 910-917, May 2006.
- Kyu Bong Cho, Sung Keun Song, Hee Yong Youn, and Gyung Leen Park, ``An Efficient and Reflective Event Filtering for Context-Awareness in Ubiquitous Computing,’’ *Lecture Notes in Computer Science Vol.3992*, pp.587-594, May 2006.
- Sung Keun Song, Hee Yong Youn, and Ungmo Kim, ``A New Reflective and Reliable Context-Oriented Event Service Architecture for Pervasive Computing,’’ *Lecture Notes in Computer Science Vol.3984*, pp.139-148, May 2006.
- Gyung-Leen Park, Hee Yong Youn, Junghoon Lee, Chul Soo Kim, Bongkyu Lee, Sang Joon Lee, Wang-Cheol Song, and Yung-Cheol Byun, ``Performance Evaluation of Parallel Systems Employing Roll-Forward Checkpoint Schemes,’’ *Lecture Notes in Computer Science Vol.3984*, pp. 185-191, May 2006.
- Sang Yong Park and Hee Yong Youn, ``Message Transport Interface for Efficient Communication Between Agent Framework and Event Service,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 1-10, May 2006.
- Hyunsoo Kim and Hee Yong Youn, ``Finding the Number of Clusters Minimizing Energy Consumption of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.3982*, pp.852-861, May 2006.
- Juryon Paik, Hee Yong Youn, and Ung Mo Kim, ``Extraction of Implicit Context Information in Ubiquitous Computing Environments,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 456-465, May 2006.
- Eung Ju Lee and Hee Yong Youn, ``Efficient Scheduling by Incorporating Bin Packing with Limited and Weighted Round Robin for Bluetooth,’’ *Lecture Notes in Computer Science Vol. 3983*, pp. 187-196, May 2006.
- Hyung Su Lee, Hee Yong Youn, and Hyedong Jung, ``Context-Aware Cross Layered Multimedia Streaming Based on Variable Packet Size Transmission,’’ *Lecture Notes in Computer Science Vol. 3981*, pp. 691-700, May 2006.
- Hyung Su Lee, Kyung Tae Kim, and Hee Yong Youn, ``A New Cluster Head Selection Scheme for Long Lifetime of Wireless Sensor Networks,’’ *Lecture Notes in Computer Science Vol.3983*, pp. 519-528, May 2006.
- Thanh Hai Trinh and Hee Yong Youn, ``A New Energy Efficient Target Detection Scheme for Pervasive Computing,’’ *Lecture Notes in Computer Science Vol.3994*, pp. 1-8, May 2006.
- Youn Chul Jung, Hee Yong Youn, and Eun Seok Lee, ``Boundary-Based Time Partitioning with Flattened R-Tree for Indexing Ubiquitous Objects,’’ *Lecture Notes in Computer Science 3794*, pp.804-814, Dec. 2005.
- Sung Jin Choi and Hee Yong Youn, ``An Efficient Key Pre-distribution Scheme for Secure Distributed Sensor Networks,’’ *Lecture Notes in Computer Science 3823*, pp. 1088-1097, Dec. 2005.
- Kyung Tae Kim and Hee Yong Youn, ``Energy-Driven Adaptive Clustering Hierarchy (EDACH) for Wireless Sensor Networks,’’ *Lecture Notes in Computer Science 3823*, pp. 1098-1107, Dec. 2005.

- Chang Won Park, Sung Jin Choi, and Hee Yong Youn, ``A Noble Key Pre-distribution Scheme with LU Matrix for Secure Wireless Sensor Networks,’’ *Lecture Notes in Computer Science* 3802, pp. 494-499, Dec. 2005.
- Hyunsang Youn, Sungwook Hwang, Heeyong Youn, and Eunseok Lee, ``Support Tool for Multi-agent Development,’’ *Lecture Notes in Computer Science* 3578, pp. 470-477, July 2005.
- SeungHwa Lee, Heeyong Youn, and EunSeok Lee, ``Context Adaptive Self-configuration System Based on Multi-agent,’’ *Lecture Notes in Computer Science* 3554, pp. 268-277, July 2005.
- Hyo Cheol Ahn and Hee Yong Youn, ``A Fuzzy Grouping-Based Load Balancing for Distributed Object Computing Systems,’’ *Lecture Notes in Computer Science* 3483, pp. 916-925, June 2005.
- Sung Chune Choi and Hee Yong Youn, ``Task Mapping Algorithm for Heterogeneous Computing System Allowing High Throughput and Load Balancing,’’ *Lecture Notes in Computer Science* 3516, pp. 1000-1003, May 2005.
- Hyunsoo Kim and Hee Yong Youn, ``Prompt Detection of Changepoint in the Operation of Networked Systems,’’ *Lecture Notes in Computer Science* 3516, pp. 1125-1129, May 2005.
- Youn Chul Jung, Hee Yong Youn, and Ungmo Kim, ``Efficient Indexing of Moving Objects Using Time-Based Partitioning with R-Tree,’’ *Lecture Notes in Computer Science* 3515, pp. 568-575, May 2005.
- Soo Myoung Lee, Hee Yong Youn, and We Duke Cho, ``Adaptive Fault Monitoring in Fault Tolerant CORBA,’’ *Lecture Notes in Computer Science* 3514, pp. 576-584, May 2005.
- SiHun Lee, JeeHyong Lee, KeonMyung Lee, and Hee Yong Youn, ``Fuzzy Category and Fuzzy Interest for Web User Understanding,’’ *Lecture Notes in Computer Science* 3483, pp. 1149-1158, May 2005.
- Yeo Bong Yoon and Hee Yong Youn, ``A New Service Discovery Scheme Adapting to User Behavior for Ubiquitous Computing,’’ *Lecture Notes in Computer Science* 3482, pp. 19-28, May 2005.
- Juryon Paik, Hee Yong Youn, and Ungmo Kim, ``A New Method for Mining Association Rules from a Collection of XML Documents,’’ *Lecture Notes in Computer Science* 3481, pp. 936-945, May 2005.
- Hea Suk Jo and Hee Yong Youn, ``A Secure User Authentication Protocol Based on One-Time-Password for Home Network,’’ *Lecture Notes in Computer Science* 3480, pp. 519-528, May 2005.
- HyeHwan Ahn and HeeYong Youn, ``Combining Next Fit of Bin Packing with Deficit Round Robin for Efficient Slot Scheduling in Bluetooth,’’ *Journal of Pervasive Computing and Communications*, Vol. 2, No. 2, pp. 125 – 134, May 2005.
- Gyung-Leen Park and Hee Yong Youn, ``A New Approach for High Performance Computing Systems with Various Checkpointing Schemes,’’ *The Journal of Supercomputing*, Vol. 33, No. 1, pp. 65-78, April 2005.
- W. Y. Yoon, D. Lee, H. Y. Youn, ``On the scalability of many-to-many reliable multicast sessions,’’ *Concurrency and Computation: Practice & Experience - Systems Performance Evaluation*, Vol. 16, No. 13, pp. 1353-1363, Nov. 2004.
- Sang-Ho Lee, Dong-Ryeol Shin, and Hee Yong Youn, ``Weighted Fair Scheduling Algorithm for QoS of Input-Queued Switches,’’ *IFIP International Conference on Network and Parallel Computing, (LNCS 3222(IFIP))*, pp. 366-373, Oct. 2004.

- Ho-Jin Shin, Dong-Ryeol Shin, and Hee-Yong Youn, ``An Efficient Backoff Scheme for IEEE 802.11 DCF, Conference on Personal Wireless Communications (*LNCS 3260*(IFIP), pp. 652-657, Sept. 2004.
- Sung Keun Song, Hee Yong Youn, Gyung-Leen Park, and Kang Soo Tae, ``On the Availability of Information Dispersal Scheme for Distributed Storage Systems,’’ ICCS 2004, *LNCS 3036*, pp. 453-457, June 2004.
- Sung Jin Choi, Hee Yong Youn, and Hyung Soo Lee, ``On Highly Secure and Available Data Storage Systems, ICCS 2004, *LNCS 3037*, pp. 121-129, June 2004.
- Kang Soo Tae, Hee Yong Youn, and Gyung-Leen Park, ``On Negation-Based Conscious Agent,’’ ICCSA 2004, *LNCS 3043*, pp. 114-121, May 2004.
- Sung Jin Choi and Hee Yong Youn, ``A Novel Data Encryption and Distribution Approach for High Security and Availability Using LU Decomposition, ICCSA 2004, *LNCS 3046*, pp. 637-646, May 2004.
- Sung Keun Song, Hee Yong Youn, and Chang Won Park, ``A Two-Public Key Scheme Omitting Collision Problem in Digital Signature,’’ ICCSA 2004, *LNCS 3046*, pp. 627-636, May 2004.
- Hea Suk Jo and Hee Yong Youn, ``A New Synchronization Protocol for Authentication in Wireless LAN Environment,’’ ICCSA 2004, *LNCS 3043*, pp. 711-721, May 2004.
- Sung Keun Song, Hee Yong Youn, and Kang Shin Lee, ``A New Digital Signature and Certificate Architecture with Shortest Certification Path,’’ *LNCS 3042*, pp. 1-12, May 2004.
- Dongman Lee, Dukyun Nam, Hee Yong Youn, Chansu Yu, ``OCI-based Group Communication Support in CORBA Parallel and Distributed Systems,’’ *IEEE Transactions on Computers*, Vol. 14, No. 11, pp. 1126 – 1139, Nov. 2003.
- Chansu Yu, Ben Lee, and Hee Yong Youn, ``Energy efficient routing protocols for mobile ad hoc networks,’’ *Wireless Communications & Mobile Computing*, Vol. 3, No. 8, pp. 959-973, Nov. 2003.
- Jong-Koo Park and Hee Yong Youn, ``Dynamic anti-windup based control method for state constrained systems,’’ *Automatica*, Vol. 39, No. 11, pp. 1915-1922, Nov. 2003.
- Haitao Lin, Sajal K. Das, and Hee Yong Youn, ``An Adaptive Radio Link Protocol to Improve TCP Performance over Correlated Fading Wireless Channels,’’ International Federation for Information Processing, *LNCS 2775*, pp. 222-236, Sept. 2003.
- Daewoo Chung, Hyunseung Choo, Hee Yong Youn, Seong-Moo Yoo, ``Efficient Location Traffic Management with Multiple Virtual Layers,’’ *Journal of Information Science and Engineering*, Vol. 19, No. 5, pp. 787-808, Sept. 2003.
- Sung Keun Song, Hee Yong Youn, Jong Koo Park, ``Deciding Optimal Information Dispersal for Parallel Computing with Failures,’’ Parallel Architectures and Compilation Techniques, *LNCS 2763*, pp. 332-335, Aug. 2003.
- Moonsoo Kang, Chansu Yu, HeeYong Youn, Ben Lee, Myungchul Kim, ``Isomorphic Strategy for Processor Allocation in k-ary n-cube Systems,’’ *IEEE Transactions on Computers*, Vol. 52, No. 5, pp. 645-657, May 2003.

- A.S.Rodionov, H.Choo, H.Y. Youn, V.V. Shakhov, ``Discord Detection for a Process with a Predefined Interval of Observations,’’ *International Journal of Computer Mathematics*, Vol. 80, No. 2, pp. 181-191, Feb. 2003.
- Sung Chune Choi, Hee Yong Youn, Jong Ku Park, and Joong Sup Choi, ``A Replication Protocol with Composite Topology for High Adaptability,’’ ICCSA, *LNCS* 2667, pp. 227-237, Jan 2003.
- Sung Chune Choi, Hee Yong Youn, Jong Ku Park, Joong Sup Choi, ``Symmetric Tree Replication Protocol for Efficient Distributed Storage System,’’ ICCS 2003, *LNCS* 2659, pp. 474-484, Jan. 2003.
- Sung Jin Choi, Hee Yong Youn, Bo Kyoung Lee, ``An Efficient Dispersal and Encryption Scheme for Secure Distributed Information Storage,’’ ICCS 2003, *LNCS* 2660, pp. 958-967, Jan. 2003.
- H. Choo, H.Y. Youn, and M.Y. Chung, ``A Study on Detecting Unexpected Demands of Mobile Users in Wireless Networking Environment,’’ in *Journal of Simulation*, Vol. 11, No. 4, pp. 33-41, Dec. 2002.
- H.Choo, H.Y.Youn, D.Chung, ``Modified Virtual Layer Scheme for Location Management,’’ *LNCS* 2343, pp. 712-724, Oct. 2002.
- H.Shin, D.Lee, S.J.Hyun, Y.Lee, M.Kim, H.Y.Youn, ``Extensions to DNS for Supporting internationalized Domain Names,’’ *LNCS* 2344, pp. 791-801, Oct 2002.
-
- Y.J. Lee, H. Choo, and H.Y. Youn, ``Quick Semi-Buddy Scheme for Dynamic Storage Allocation in Real-time Systems,’’ in *Journal of Simulation*, Vol. 11, No. 3, pp. 23-34, Sept. 2002.
- H.Y. Youn, H.S. Kim, H. Choo, and S. Das, ``Rerouting for Handoff based on the Distance in Wireless ATM Networks,’’ in *Computer Communications*, 25, pp. 1162-1171, Aug. 2002.
- A.S. Rodionov, H. Choo, and H.Y. Youn, ``Process Simulation Using Randomized Markov Chain and Truncated Marginal Distribution,’’ *The Journal of Supercomputing*, 22, pp. 69-85, May 2002.
- V.V. Shakhov, H.Choo, H.Y. Youn, ``On Detecting Unsteady Demand in Mobile Networking Environment,’’ ICCS 2002 - *LNCS* 2331, pp. 1108-1117, April 2002.
- Y. Hong, H. Choo, H.Y. Youn, ``Modeling and Performance Evaluation of MIN-based Switch Adopting USB Method,’’ *Journal of Simulation*, Vol. 11, No. 1, pp. 71-81, March 2002.
- A.S. Rodionov, H. Choo, H.Y. Youn, and T.M. Chung, ``Generation of Pseudo Random Processes with Given Marginal Distribution and Autocorrelation Function,’’ *Int'l Journal of Computer Mathematics*, Vol. 78, pp. 521-537, Jan. 2002.
-
- D. Lee, W. Yoon, and H.Y. Youn, ``Enhancing Scalability of Tree-Based Reliable Multicast by Approximating Logical Tree to Multicast Routing Tree,’’ *IEICE Trans. on Communications*, Vol. E84-B, No. 10, pp. 2850-2862, Oct. 2001.
- H. Choo, H.Y. Youn, and G.-L. Park, ``Dynamic Task Scheduling for 3D Torus Multicomputer Systems,’’ in *KIPS Trans. A*, Vol. 8-A, No. 3, pp. 245-252, Sept. 2001.
- Sangman Moh et al., ``Four-Ary Tree-Based Barrier Synchronization for 2D Meshes without Nonmember Involvement,’’ *IEEE Trans. On Computers*, Vol. 50, No. 8, pp. 811- 823, Aug. 2001.
- D. Chung, H. Choo, and H.Y. Youn, and Dong Ryeol Shin, ``Reduction of Location Update Traffic Using Virtual Layer in PCS,’’ *Lecture Notes in Computer Science 2105*(1st Int'l Conf. Human Society and the Internet), pp. 398-410, July 2001.

- H.Y. Youn, H.S. Kim, H. Choo, and K. Kim, "A New Incremental Rerouting for handoff in Wireless ATM Networks," *Lecture Notes in Computer Science* 2105(1st Int'l Conf. Human Society and the Internet), pp. 368-382, July 2001.
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," *Journal of Simulation*, Vol 10, No. 2, pp. 47-59, June 2001.
- A.S. Rodionov, H. Choo, H.Y. Youn, T.M. Chung, and K. Park, "Efficient Random Process Generation for Reliable Simulation of Complex Systems," *Lecture Notes in Computer Science* 2074 (Int'l Conf. on Computational Science), pp. 912-921, May 2001.
- S.M. Yoo, H.Y. Youn, and H. Choo, "Dynamic Scheduling and Allocation in Two-Dimensional Mesh-Connected Multicomputers for Real-Time Tasks," in *IEICE Transaction on Information and Systems*, Vol. E84-D, No. 5, pp. 613-622, May 2001.
- H.Y. Youn et al., "An Efficient Algorithm-Based Fault Tolerance Design Using the Weighted Data-Check Relationship," in *IEEE Trans. on Computers*, Vol. 50, No. 4, pp. 371-383, April 2001.
- K. Kang, D. Lee, H.Y. Youn, and K. Chon, "NLM: Network-based Layered Multicast for Traffic Control of Heterogeneous Network," in *Computer Communications*, Vol. 24, pp. 525-538, March 2001.
- S. Moh, C. Yu, H.Y. Youn, D. Han, B. Lee, D. Lee, "A Fast Tree-Based Barrier Synchronization on Switch-Based Irregular Network," *Lecture Notes in Computer Science* 1970 (*High Performance Computing – 2000*), pp. 273-282, Dec. 2000.
- S.M. Yoo, H. Choo, H.Y. Youn, C. Yu, and Y.H. Lee, "On task relocation in 2D meshes," in *Journal of Parallel and Distributed Computing*, Vol. 60, pp. 616-638, June 2000.
- H. Choo, S.M. Yoo, and H.Y. Youn, "Processor scheduling and allocation for 3D Torus Multicomputer Systems," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 11, No. 5, pp. 475-484, May 2000.
- H.Y. Youn, "Data Management for Mobile Computing," *Korean-American Scientist and Engineer Association Journal*, Vol. 1, 1999, pp. 34-42, May 1999.
- H.Y. Youn and H. Choo, "Performance Enhancement of Multistage Interconnection Networks with Unit Step Buffering," in *IEEE Trans. on Communications*, Vol. 47, No. 4, pp. 618-630, April 1999.
- S.M. Yoo, H.Y. Youn, and B. Shirazi, "On Dynamic Processor Allocation for 2D Mesh Multicomputer Systems," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 8, No. 9, pp. 934-942, Sept. 1997.
-
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," to appear in *Journal of Information Science and Engineering*
- H.Y. Youn and J.Y. Lee, "Efficient Dictionary Machine Using Hexagonal Processor Arrays," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 7, No. 3, pp. 266-273, March 1996.
- Shirazi, H.Y. Youn, and D.M. Lorts, "Evaluation of Static Scheduling Heuristics for Real-Time Multiprocessing," in *Parallel Processing Letters*, Vol. 5, No. 4, pp. 599-610, 1995.
-
- C.G. Oh and H.Y. Youn, and V.K. Raj, "An Efficient Algorithm-Based Concurrent Error Detection Design for FFT Networks," in *IEEE Trans. on Computers*, Vol. 44, No. 9, pp. 1157-1162, Sept. 1995.

- J.Y. Lee, H.Y. Youn, and A.D. Singh, "Adaptive Unanimous Voting(UV) for Distributed Self-Diagnosis," in *IEEE Trans. on Computers*, Vol. 44, No. 5, pp. 730-735, May 1995.
- H.Y. Youn and Y. Mun, "On Multistage Interconnection Networks with Small Clock Cycles," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 6, No. 1, pp. 86-92, Jan. 1995.
- Y. Mun and H.Y. Youn, "Performance Modeling and Evaluation of Circuit Switching Using Clos Networks," in *IEEE Trans. on Computers*, Vol. 43, No. 7, pp. 854-861, July 1994.
- C.G. Oh and H.Y. Youn, "On Concurrent Error Location and Correction of FFT Networks," in *IEEE Trans. on VLSI systems*, Vol. 2, No. 2, pp. 257-260, June 1994.
- Y. Mun and H.Y. Youn, "Performance Analysis of Finite Buffered Multistage Interconnection Networks," in *IEEE Trans. on Computers*, Vol. 43, No. 2, pp. 153-162, Feb. 1994.
- H.Y. Youn and C.C.-Y. Chen, "A Comprehensive Performance Evaluation of Crossbar Network," in *IEEE Trans. on Parallel and Distributed Systems*, Vol. 4, No. 5, pp 481-489, May 1993.
- A.D. Singh and H.Y. Youn, "A Fault Tolerant Binary Tree Architecture for VLSI with Short Links," in *IEEE Trans. on Computers*, vol. 40, pp. 882-890, July 1991.
- H.Y. Youn and A.D. Singh, "On Implementing Large Binary Tree Architectures in VLSI and WSI," in *IEEE Trans. on Computers*, Vol. 38, pp. 526-537, April 1989.

B. REFERRED INTERNATIONAL CONFERENCES

- Dynamically Adjusting the Stale Synchronous Parallel Model for Edge Computing, Sangu Lee, Taeho Lee, Yili Wang and Hee Yong Youn, Proceedings on the International Conference on Internet Computing (ICOMP), p.93-99, 201909
- Dynamic Sink Relocation with Fuzzy Logic for Wireless Sensor Network, Taeho Lee, Kyungtae Kim, Yili Wang, and Hee Yong Youn, Proceedings of the International Conference on Wireless Networks (ICWN), p.15-21, 201909
- Fast Detection of Abnormal Data in IIoT with Segmented Linear Regression, Sejun Kim, Ihsan Ullah, Taeho Lee, and Hee Yong Youn, Proceedings on the International Conference on Internet Computing (ICOMP), p.88-94, 201909
- Detection of Falls with Smartphone Using Machine Learning Technique, Xianyao Chen, Hai Xue, Minwoo Kim, Cheng Wang, Hee Yong Youn
- Load Balancing for Distributed SDN with Harmony Search, Sejun Kim, Sangyoung Kim Ebay, Byungjun Lee, KyungTae Kim, Hee Yong Youn, 2019 16th IEEE Annual Consumer Communications & Networking Conference (CCNC)
- Dae Hyeon Kim, Ye Jin Lee, Rhee Man Kil and Hee Yong Youn, "Deep Structure of Gaussian Kernel Function Networks for Predicting Daily Peak Power Demands", International Conference on Neural Information Processing (ICONIP 2018), Dec. 2018
- Seung Eon Yoo, Cheng Wang, Kyung Tae Kim, Se Jun Kim and Hee Yong Youn, "Supporting Node Connectivity with Dixon's Test for ZigBee-based WSN", The 9th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2018), Nov. 2018.

- Dong Hyun Kim, Tae Ho Lee, Se Jun Kim, Byung Jun Lee, Hee Yong Youn, "Adaptive Packet Scheduling in IoT Environment Based on Q-learning", The 9th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2018), Nov. 2018.
- Byung Hoo Song, Byungjun Lee, Kyung Tae Kim, and Hee Yong Youn, "Enhanced Query Processing Using Weighted Predicate Tree in Edge Computing Environment", 2017 IEEE Conference on Standards for Communications and Networking (CSCN), Oct. 2017.
- Sangyoung Kim, Sukdong Kim, Rhee Man Kil, Hee Yong Youn, "Cgroup-Aware Load Balancing in Heterogeneous Multi-Processor Scheduler", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Young Gyo Jung, Kyung Tae Kim, Byungjun Lee, Hee Yong Youn, "Enhanced Naive Bayes Classifier for Real-time Sentiment Analysis with SparkR", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Dongyoung Jung, Tae Yun Kwon, Kyung Tae Kim, Hee Yong Youn, "Enhanced Stream Control Transmission Protocol with Access Frequency Control", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Sung Min Chung, Kyung Tae Kim, Junseok Song, Hee Yong Youn, "Enhancing Node Connectivity by Utilizing RSSI for ZigBee-based WSN", International Conference on ICT Convergence 2016 (ICTC 2016), Oct. 2016.
- Jung June Lee, Sung Min Chung, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Round Trip Time based Adaptive Congestion Control with CoAP for Sensor Network", 2016 International Conference on Distributed Computing in Sensor Systems, May 2016.
- Young Ho Suh, Kyung Tae Kim, Dong Ryeol Shin and Hee Yong Youn "Traffic-Aware Energy Efficient Routing (TEER) Using Multi-Criteria Decision Making for Wireless Sensor Network", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Seung Wan Kim, Young Gyo Jung, Dong Ryeol Shin and Hee Yong Youn "Dynamic Queue Management Approach for Data Integrity and Delay Differentiated Service in WSN", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Sanghyun Yoo, Yonjoong Ryou, Kyung Tae Kim and Hee Yong Youn "Block Replacement based on Access Locality with SolidStateDrive", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- JiHyeon Choi, Byungjun Lee, DongYoung Jung and Hee Yong Youn "An SSD-based Accelerator Using Partitioned Bloom Filter for Directory Parsing", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- YiLi Wang, ByungJun Lee, JungJune Lee and HeeYong Youn "A PSO-based Buffer Management Scheme for Improving Hit Ratio of Solid State Drive", International Conference on IT Convergence and Security 2015 (ICITCS 2015), Aug. 2015.
- Hee Jung Park, Kyung Tae Kim, Byungjun Lee, Rhee Man Kil and Hee Yong Youn "Improving Hypervisor-based SSD Caching with Logically Partitioned Blocks and Scanning in Cloud Environment", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.

- Xianda Chen, Young Ho Suh, Seung Wan Kim and Hee Yong Youn "Reducing Connection Failure in Mobility Management for LTE HetNet using MCDM Algorithm", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Yonjoong Ryou, Byungjun Lee, Sanghyun Yoo and Hee Yong Youn "Considering Block Popularity in Disk Cache Replacement for Enhancing Hit Ratio with Solid State Drive", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Nayoung Park, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Cold Data Eviction Using Node Congestion Probability for HDFS based on Hybrid SSD", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- Kyung Tae Kim, Man Youn Kim, Ji Hyeon Choi and Hee Yong Youn "An Energy Efficient and Optimal Randomized Clustering for Wireless Sensor Networks", 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015), June 2015.
- ManYun Kim, Kyung Hwan Oh, Hee Yong Youn and Sang Won Lee "Enhanced Dual Bloom Filter based on SSD for Efficient Directory Parsing in Cloud Storage System", International conference on Computing, Networking & Communications 2015 (ICNC 2015), Feb. 2015.
- Xianfeng Pei, Xianda Chen, Kyung Tae Kim, Seung Wan Kim and Hee Yong Youn "Spatio-Temporal Event Detection a Hierarchy based Approach for Wireless Sensor Network", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Byungjun Lee, Kyung Hwan Oh, Hee Jung Park, Ung Mo Kim and Hee Yong Youn "Resource Reallocation of Virtual Machine in Cloud Computing with MCDM Algorithm", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Kyung Tae Kim, Woo Sik Seol, Ung Mo Kim and Hee Yong Youn "Latent Semantic Analysis for Mining Rules in Big Data Environment", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Ihsan Ullah, Jihyeon Choi, Yonjoon Ryou, Man Yun Kim and Hee Yong Youn "Hadoop Preemptive Deadline Constraint Scheduler", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Xianda Chen, Min Jae Kim, Sang Hyun Yoo, Na Young Park and Hee Yong Youn "Efficient and Prompt Handover in LTE-based Systems by Predicting the Target eNodeBs", 2014 CyberC The 6th International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery, Oct. 2014.
- Byungjun Lee, Ho Kuen Song, Youngho Suh, Kyung Hwan Oh and Hee Yong Youn "Energy-efficient Gossiping Protocol of WSN with Realtime Streaming Data", The 12th IEEE International Conference on Embedded Computing, Aug. 2014.
- Kyung Tae Kim, Jong Chang Park, Manyun Kim, Ung Mo Kim and Hee Yong Youn "A Spanning Tree based Data Collection for Real-Time Streaming Sensor Data", The 12th IEEE International Conference on Embedded Computing, Aug. 2014.

- Joon-hyuk Ryu, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn "Reduction of IPTV Channel Zapping Time by Utilizing the Key Input Latency", 2014 IEEE Consumer Communications & Networking Conferences, Jan. 2014.
- Jong Chang Park, Min Seok Choi, Byoung Joon Lee, Kyung Tae Kim, and Hee Yong Youn, "Distribute Sementic Service Discorvery for Manet", 2013 IEEE 10th International Conference on and 10th International Conference on Autonomic and Trusted Computing (UIC/ATC), Dec. 2013.
- Zhong Yuan Li, Jong Chang Park, Byungjun Lee, and Hee Yong Youn, "Situation Awareness Based on Dempster-Shafer Theory and Semantic Similarity", 2013 IEEE 16th International Conference on Computational Science and Engineering, Dec. 2013.
- Kyung Hwan Oh, Hyung Ku Kang, Jong Chang Park, and Hee Yong Youn, "WAGE: Weighting with AHP, Grey numbers, and Entropy for Multiple-Criteria Group Decision Making Problem", 2013 2nd International Conference on Big Data Science and Engineering, Dec. 2013.
- Woo Sik Seol, Hwi Woon Jeong, Byungjun Lee, and Hee Yong Youn, "Reduction of Association Rules for Big Data Sets in Socially-Aware Computing", 2013 2nd International Conference on Big Data Science and Engineering, Dec. 2013.
- Shrin Akther Khanam, Kyung Hwan Oh, Woo Sik Seol, and Hee Yong Youn, "A Novel Semantic Web Service Discovery Scheme Using Bipartite Graph", High Performance Computing and Communications & 2013 IEEE International Conference on Embedded and Ubiquitous Computing (HPCC_EUC), Nov. 2013.
- Yiwen Shen, Kyung Tae Kim, Jong Chang Park and Hee Yong Youn, "Object Tracking based on the Prediction of Trajectory in Wireless Sensor Networks", High Performance Computing and Communications & 2013 IEEE International Conference on Embedded and Ubiquitous Computing (HPCC_EUC), Nov. 2013.
- Geon Yong Park, Heeseong Kim, Hwi Woon Jeong, and Hee Yong Youn, "A Novel Cluster Head Selection Method based on K-Means Algorithm for Energy Efficient Wireless Sensor Network", 2013 27th International Conference on Advanced Information Networking and Applications Workshops, 2013.
- Ho Kuen Song, Kwang Myung Kim, Kyung Tae Kim, Hee Yong Youn, "Application of Genetic Algorithm for Logistics Based on Multi-Agent System", 2013 International Conference on Information Networking, Jan. 2013.
- Zhu Xian Cui, Han Ku Yoo, Jun Yeol Choi, and Hee Yong Youn, "Multi-criteria Group Decision Making with Fuzzy Logic and Entropy based Weighting," ACM ICUIMC2011, Feb. 2011.
- Hyung Ku Kang, Dae Gun Kim, Hwi Woon Jeong, Geon Yong Park, and Hee Yong Youn, "A Novel Interval Grey Number and Entropy-based Solution for Multiple-Criteria Group Decision Making Problem," 2012 9th Int'l Conf. on Ubiquitous Intelligence & Computing, pp. 349-356, Sept. 2012.
- Young Joon Lee, Geon Yong Park, Ho Kuen Song, and Hee Yong Youn, "A Load Balancing Scheme for Distributed Simulation Based on Multi-agent System," 2012 IEEE 36th Annual Computer Software and Applications Conference Workshops (COMPSACW), pp. 613-618, July 2012.
- Back Sun Sim, Heeseong Kim, Kwang Myung Kim, and Hee Yong Youn, "Type-based context-aware service Recommender System for social network," 2012 IEEE Int'l Conf. on Computer, Information and Telecommunication Systems (CITS), pp. 1-5, May 2012.

- Hwi Woon Jeong, Jun Yeol Choi, Hyung Ku Kang, and Hee Yong Youn, "An Efficient Group-based Channel Scanning Scheme for Handover with IEEE 802.16e," IEEE AINA2012, pp. 639-644, March 2012.
- Heeseong Kim, Jun Yeol Choi, Kyu Sung Ahn, and Hee Yong Youn, "An Efficient AP Channel Scanning Scheme for Mobility over WiMax," IEEE ICOIN2012, pp. 334-339, Feb. 2012.
- Kwang Myung Kim, Suk Jung Yong, Back Sun Sim, and Hee Yong Youn, "Effective Packet Buffering for FMIPv6 Protocol over Diffserv Domain," IEEE ICOIN2012, pp.102-107, Feb. 2012.
- Hyung Do Lee, Sung Soo Moon, Suk Jung Yong, and Hee Yong Youn, "Reducing Response Time with Dynamic Load Balancing and Agent Pool in Multi-Agent System," The 14th IEEE International Conference on Computational Science and Engineering(CSE), pp. 503-510, Aug. 2011.
- Han Ku Yoo, Kwang Myung Kim, and Hee Yong Youn, "An Effective Batching Scheme Combining Static Multicasting with Dynamic Multicasting for Mobile IPTV," 2011 IEEE/IPSJ International Symposium on Applications and the Internet(SAINT), July 2011.
- Hong Nhat Pham, Back Sun Sim, and Hee Yong Youn, "A Novel Approach for Selecting the Participants to Collect Data in Participatory Sensing," 2011 IEEE/IPSJ International Symposium on Applications and the Internet(SAINT), pp. 50-55, July 2011.
- Chun Kyung Lee, Thi Hien Pham, Hee Seong Kim, and Hee Yong Youn, "Similarity based Distributed Context Reasoning with Layer Context Modeling," 35th IEEE Annual Computer Software and Applications Conference(COMPSAC) 2011, pp. 320-325, July 2011.
- Kang-Lyul Lee, Hong Nhat Pham, Hee-seong Kim, Hee Yong Youn, and Ohyoung Song, "A Novel Predictive and Self-Adaptive Dynamic Thread Pool Management," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, pp. 93-98, May 2011.
- Kyu Sung Ahn, Dae Gun Kim, Back Sun Sim, Hee Yong Youn, and Ohyoung Song, "Balanced Chain-Based Routing Protocol(BCBRP) for Energy Efficient Wireless Sensor Networks," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Suk Jung Yong, Hyung Do Lee, Han Ku Yoo, Hee Yong Youn, and Ohyoung Song, "Personalized Recommendation System Reflecting User Preference with Context-awareness for Mobile TV," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Sung Soo Moon, Kyung Tae Kim, Seongwoo Lee, Hee Yong Youn, and Ohyoung Song, "An Efficient VoD scheme Combining Fast Broadcasting with Patching," Ninth IEEE International Symposium on Parallel and Distributed Processing with Applications, May 2011.
- Jun Yeol Choi, Zhong Yuan Li, and Hee Yong Youn, "Privacy Protection in Service Discovery for Large-scale Distributed Computing Systems," IEEE IPDPS 2011, May 2011.
- Thi Hien Pham, JunYeol Choi, HyungDo Lee, and Hee Yong Youn, "Distributed Multi-agent Reasoning with Layered Context Modeling and Priority," IEEE/ACM GreenCom2010, Dec. 2010.
- Dae Gun Kim, Zhong Yuan Li, Sung Soo Moon, and Hee Yong Youn, "Resource Selection in Large-Scale Distributed System Using Dynamic Task Sharing," IEEE/ACM GreenCom2010, Dec. 2010.
- Seong woo Lee, Chang Hoon Lyu, Kyu Sung Ahn, Seung wok Han, and Hee Yong Youn, "Context Modeling Reflecting the Perspectives of Constituent Agents in Distributed Reasoning," IEEE/ACM GreenCom2010, Dec. 2010.

- Min Seok Choi, Wang Yaqiong, Kyung Tae Kim, Suk Jung Yong, and Hee Yong Youn, ``A New Polling Protocol with Efficient Cluster Creation for WSN,’’ IEEE/ACM GreenCom2010, Dec. 2010.
- Byung Ha Son, Seong Woo Lee, and Hee Yong Youn, ``Prediction-Based Dynamic Load Balancing Using Agent Migration for Multi-Agent System,’’ IEEE HPCC2010, Aug. 2010.
- Chang Hoon Lyu, Min Seok Choi, Zhong Yuan Li, and Hee Yong Youn, ``Reasoning with Imprecise Context Using Improved Dempster-Shafer Theory,’’ IEEE/WIC/ACM IAT2010, Aug. 2010.
- Myung Jin Hwang, Dae Gun Kim, and Hee Yong Youn, ``Enhancing the Performance of Metadata Service for Cloud Computing,’’ IEEE/WIC/ACM Web Intelligence and Intelligent Agent Technology(WI-IAT2010), Aug. 2010.
- Sun Sik Park, Myung Jin Hwang, Sung Soo Moon, and Hee Yong Youn, ``An Efficient VoD Scheme Providing Service Continuity for Mobile IPTV in Heterogeneous Networks,’’ IEEE CIT2010, June 2010.
- Zhong Yuan Li, Sung Keun Song, Sukjung Yong, and Hee Yong Youn, ``Private and Secure Service Discovery Using Incrementally Progressive Exposure and Random Match,’’ IEEE CIT2010, June 2010.
- Byungjun Lee, Kyung Tae Kim, Hyung Do Lee, and Hee Yong Youn, ``A SIP Signaling Retransmission Scheme for Efficient Mobile IPTV Service over 3G Wireless Networks,’’ IEEE CIT2010, June 2010.
- Kyung Tae Kim, Han Ku Yoo, Byung Ha Son, and Hee Yong Youn, ``An Energy Efficient clustering Scheme for Self-Organizing Distributed Wireless Sensor networks,’’ IEEE CIT2010, June 2010.
- Sungchune Choi, Minseuk Choi, Chunkyeong Lee, and Hee Yong Youn, ``Distributed Lock Manager for Distrivuted File System in Shared-Disk Environment,’’ IEEE CIT2010, June 2010.
- Jaehyun Choi, Seungwok Han, Changhoon Lyu, and Hee Yong Youn, ``Enhanced Packet Buffering for DiffServ in Fast Handover Mobile IP,’’ IEEE CIT2010, June 2010.
- Jae Wook Woo, Myung Jin Hwang, Chun Gyeong Lee, and Hee Yong Youn, ``Dynamic Role-Based Access Control with Trust-Satisfaction and Reputation for Multi-Agent System,’’ IEEE WAINA2010, April 2010.
- Kyung Tae Kim, Chang Hoon Lyu, Sung Soo Moon, and Hee Yong Youn, ``Tree-Based Clustering(TBC) for Energy Efficient Wireless Sensor Networks, IEEE WAINA2010, April 2010.
- Hyun Chul Lee, Kyung Tae Kim, Hee Yong Youn, and Ohyoung Song, ``An Efficient AP Channel Scanning Scheme for Real-time Streaming over WLAN,’’ IEEE PerCom2010, March 2010.
- Bo Yle Jung, Min Seok Choi, Hee Yong Youn, and Ohyoung Song, ``Vertical Handover based on the Prediction of Mobility of Mobile Node,’’ IEEE PerCom2010, March 2010.
- Yun Ho Kim, Min Seok Choi, and Hee Yong Youn, ``An Effective Scheduling Strategy for Video on Demand Service in Wireless IPTV,’’IEEE Education Society CNMT2010, Dec. 2010.
- Chi Hyun Cho, Kyung Tae Kim, Hee Yong Youn, and Sung Oh Hwang, ``An Effective Batching Scheme Utilizing the Segment Interval Time for Wireless IPTV,’’ IEEE CCNC-2009, Jan. 2009.
- Jong Ik Jang, Kyung Tae Kim, and Hee Yong Youn, ``An Enhanced Periodic Broadcasting Scheme for VoD with Heterogeneous Receivers,’’ IEEE CCNC-2009, Jan. 2009.

- Eun Sang Noh, Hyun Ko, Chang Hoon Lyu, and Hee Yong Youn, ``Hybrid Context Matchmaking for Fast Context-aware Computing,’’ IEEE(CS) WAINA-2009, May 2009.
- Jae Duck Yu, Kyung Tae Kim, Bo Yle Jung, and Hee Yong Youn, ``An Energy Efficient Chain-Based Clustering Routing Protocol for Wireless Sensor Networks,’’ IEEE(CS) WAINA2009, May2009.
- Nak Beom Sung, Kyung Tae Kim, Sun Sik Park, and Hee Yong Youn, ``A New Counting Scheme for Multicast Broadcast Service with WiBro,’’ IEEE(CS) AINA-2009, May 2009.
- Kyung Tae Kim, Won Jun Choi, Myung Jin Whang, and Hee Yong Youn, ``CA-MAC: Context Adaptive MAC Protocol for Wireless Sensor Networks,’’ IEEE(CS) CSE-2009, Aug. 2009.
- Kyung Tae Kim, Byung Jun Lee, Jae Hyun Choi, Bo Yle Jung, and Hee Yong Youn, ``An Energy Efficient Routing Protocol in Wireless Sensor Networks,’’ IEEE(CS) CSE-2009, Aug. 2009.
- Yong Hee Kim, Seungwok Han, Chang Hun Lyu, and Hee Yong Youn, ``An Efficient Dynamic Load Balancing Scheme for Multi-Agent System Reflecting Agent Workload,’’ IEEE(CS) CSE-2009, Aug. 2009.
- BeoumSun Kim, ByungHa Son, SeungWok Han, and HeeYong Youn, ``Agent Platform-based Directory Facilitator for Efficient Service Discovery,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seung Yeop Shin, Hyun Chul Lee, Sung Keun Song, and Hee Yong Youn, ``A Load Balancing Scheme for Multi-Agent Systems based on Agent State and Load Condition,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seung Yeop Shin, Hyun Chul Lee, Sung Keun Song, and Hee Yong Youn, ``A Load Balancing Scheme for Multi-Agent Systems based on Agent State and Load Condition,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Hyun Ki Hong, Sun Sik Park, Sung Keun Song, and Hee Yong Youn, ``A Priority-based Message Scheduling Scheme for Multi-agent System Dynamically Adapting to the Environment Change,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Kyung Wook Baek, Chang Hoon Lyu, Seungwok Han, and Hee Yong Youn, ``Modeling the Contexts without Distracting the Perspectives of the Agents in Distributed Reasoning,’’ IEEE(CS) CYBERC-2009, Oct. 2009.
- Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``Modeling and Verification of Context-awareness Service for Time Critical Applications Using Colored Petri-Net,’’ IEEE(CS) IAT 2008, Dec. 2008.
- SangWon Rhee, Kyu-Yeong Jeon, Sung Keun Song, Hyung Su Lee, Hee Yong Youn , ``A Dynamic Weighting Scheme for Providing Fair Communication Service to Nomadic Agents,’’ IEEE(CS) ISDA 2008, Nov. 2008.
- Joon Hwang Kim, Jeong Hun Chu, Seungwok Han, Chang Won Park, and Hee Yong Youn, ``Hierarchical P2P Networking and Two-level Compression Scheme for Multi-agent System Supporting Context-aware Applications,’’ IEEE(CS) ISDA 2008, Nov. 2008.
- Hyun Ko, Seungwok Han, Ungmo Kim, and Hee Yong Youn, ``A New Agent Characterization Model and Grouping Method,’’ IEEE IRI 2008, July 2008.

- Feng Ming Hu, Yun Ho Kim, Kyung Tae Kim, Hee Yong Youn, and Chang Won Park, ``Energy-Based Selective Cluster-head Rotation in Wireless Sensor Networks,’’ ACM ICAIT 2008, July 2008.
- Yaqiong Wang, Kyung Wook Baek , Kyung Tae Kim, Hee Yong Youn, and Hyung Su Lee, ``Clustering with Case-based Reasoning for Wireless Sensor Network,’’ ACM ICAIT 2008, July 2008.
- Juryon Paik, Junghyun Nam, Hee Yong Youn, and Ung Mo Kim, ``Discovery of Useful Patterns from Tree-Structured Documents with Label-Projected Database,’’ ATC 2008, Springer, June 2008.
- Eunyoung Kang, Hee Yong Youn, and Ungmo Kim, ``Mining Based Decision Support Multi-agent System for Personalized e-Healthcare Service,’’ KES-AMSTA, 2008, Springer, March 2008.
- Chi Hyun Cho, Kyung Tae Kim, and Hee Yong Youn, ``Mobile Multi-hop Relay System using AMC for Multicast Broadcast Service over Mobile WiMAX,’’ IEEE WTS 2008, April 2008.
- Kyu Seol Lee, Sang Won Rhee, and Hee Yong Youn, ``A MAC Layer Multicasting Approach for WiMAX Access Networks,’’IEEE Percom 2008, March 2008.
- Sung Keun Song, SeungWok Han, and Hee Yong Youn, ``A New Agent Platform Architecture Supporting the Agent Group Paradigm for Multi-Agent Systems,’’ IEEE/WIC/ACM IAT 2007, Nov. 2007.
- Yang Seok Yoon, Hyun Ko, SeungWok Han, and Hee Yong Youn, ``Priority-based Message Scheduling for the Multi-agent System in Ubiquitous Environment,’’ IEEE/WIC/ACM WI/IAT Workshops, Nov. 2007.
- Sun Wook Kim, Hee Yong Youn, Sung Jin Choi, and Nak Beom Sung, ``GAPS: The Genetic Algorithm-based Path Selection Scheme for MPLS Network ,’’ IEEE IRI '07, Aug. 2007.
- Kyu Yeong Jeon, Kyu Seol Lee, and Hee Yong Youn, ``Dynamic Load Balancing for Large-scale Distributed System with Intelligent Fuzzy Controller,’’ IEEE IRI '07, Aug. 2007.
- Seungwok Han,Sung Keun Song, and Hee Yong Youn, ``Dynamic Software Adaptation with Dependence Analysis for Multi-Agent Platform,’’ ICCSA '07, Aug. 2007.
- Kyu Bong Cho, Seungwok Han, and Hee Yong Youn, ``Efficient and Dynamic Location-based Event Service for Mobile Computing Environments,’’ ICCSA '07, Aug. 2007.
- Ki Young Jang, Kyung Tae Kim, and Hee Yong Youn, ``An Energy Efficient Routing Scheme for Wireless Sensor Networks,’’ ICCSA '07, Aug. 2007.
- Young Kwon You, Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``Context-based Dynamic Channel Management for Efficient Event Service in Pervasive Computing, ICCSA '07, Aug. 2007.
- Kyu Bong Cho, Sung Keun Song, and Hee Yong Youn, ``Publisher-side Event Filtering for QoS-Awareness in Ubiquitous Computing,’’ ICCSA '07, Aug. 2007.
- Sung Jin Choi and Hee Yong Youn, ``MKPS: A Multi-level Key Pre-distribution Scheme for Secure Wireless Sensor Networks,’’ LNCS HCI '07, Springer, July 2007.
- Su Lee, Sung Song, and Hee Yong Youn, ``On the Efficiency of Service Discovery for Ubiquitous Computing,’’ SPECTS 2007, SCS, July 2007.

- Xiaoling Wu, Jinsung Cho, Brian J. d'Auriol, Sungyoung Lee, and Hee Yong Youn, ``Self-deployment of Mobile Nodes in Hybrid Sensor Networks by AHP, LNCS UIC '07, Springer, July 2007.
- Ji Hoon Kim, Seungwok Han, and Hee Yong Youn, ``Prediction-based Dynamic Thread Pool Management of Agent Platform for Ubiquitous Computing,`` LNCS UIC '07, Springer, July 2007.
- Vo Dinh Minh Nhat, Sung Young Lee, and Hee Yong Youn, ``Whitened LDA for Face Recognition,`` CIVR '07, ACM, July 2007.
- Eung Ju Lee, Kyu Seol Lee, and Hee Yong Youn, ``Performance Enhancement of Multimedia Data Transmission by Adjusting Compression Rate, LNCS ICCS '07, Springer, May 2007.
- Thanh Hai Trinh, Ji Hoon Kim, and Hee Yong Youn, ``A Scheme for Low Path Loss in Object Monitoring with Sensor Network,`` IEEE AINA '07, May 2007.
- Thanh Hai Trinh and Hee Yong Youn, ``On Mobile Sink Node for Target Tracking in Wireless Sensor Networks,`` IEEE PERCOMW '07, March 2007.
- Ae hee Park, So Hyun Park, and Hee Yong Youn, ``A Flexible and Scalable Agent Platform for Multi-Agent Systems,`` CISE 2007, Jan. 2007.
- Young Kwon You, Seungwok Han, Sung Keun Song, and Hee Yong Youn, ``CALM: An Intelligent Agent-based Middleware for Community Computing,`` SEUS-WCCIA'06, IEEE(CS), April 2006.
- Insuk Park, Kyungmin Lee, Dongman Lee, Soon J. Hyun, and Hee Yong Yoon, ``A Dynamic Context Conflict Resolution Scheme for Group-aware Ubiquitous Computing Environments,`` ubiPCMM 2005, Sept. 2005.
- Sejung Oh, Juryon Paik, Hee Yong Youn, and Ungmo Kim, ``Ontology-based Service Discovery Middleware for Heterogeneous Agent Platforms,`` ubiPCMM05, Sept. 2005.
- Kyung Tae Kim and Hee Yong Youn, ``PEACH: Proxy-Enable Adaptive Clustering Hierarchy for Wireless Sensor Networks,`` ICWN 2005, June 2005.
- Hee Yong Youn, ``A Linux-Based Implementation of a Middleware Model Supporting Time-Triggered Message-Triggered Objects,`` IEEE ISORC 2005, May 2005.
- Su Myeong Lee and Hee Yong Youn, ``Dynamic window-based adaptive fault monitoring for ubiquitous computing systems,`` IEEE PRDC2005 , Dec. 2005.
- Hyun Ko, Seungwok Han, and Hee Yong Youn, ``Adaptive Bridging with Portable Interceptor for Efficient Integration of Reflective Middleware,`` 6th International Middleware Conference, ACM/IFIP/USENIX, Feb. 2005.
- Hye Hwan Ahn, Hee Yong Youn, and Chang-Won Park, ``Incorporation of Bin Packing with Deficit Round Robin for Efficient Slot Scheduling in Bluetooth,`` ICWN 04, CSREA Press, June 2004.
- Seung Wok Han, Yeo Bong Yoon, Hee Yong Youn, and We-Duke Cho, ``A New Middleware Architecture for Ubiquitous Computing Environment,`` The 2nd IEEE Workshop on Software Technologies for Embedded and Ubiquitous Computing Systems, May 2004.
- Jong Ho Lee and Hee Yong Youn, ``Efficient Power-aware Hybrid Routing Using Zoning for Ad Hoc Network,`` 18th International Conference Computers and Their Applications, March 2003.

- S. Moh, C. Yu, B. Lee, and H.Y. Youn, ``Energy Efficient and Robust Multicast Protocol for Mobile Ad Hoc Networks, Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 145 - 152, Dec. 2002.
- H.Y. Youn et al., ``Distributed Lock Manager for File Sharing in Storage Area Network," Proc. of the IASTED Int'l Conf. on Communications and Computer Networks, pp. 492-497, Nov. 2002.
- H.Y. Youn et al., ``An Efficient Hybrid Replication Protocol for Highly Available Distributed System," Proc. of the IASTED Int'l Conf. on Communications and Computer Networks, pp. 492-497, Nov. 2002.
- M.J. Seo, H.Y. Youn, J.H. Lee, and H. Choo, ``Multiple Zoning with Multiple Posts for Efficient Routing in MANET," 2nd Int'l Conf. on Computer and Information Science, pp. 831-836, Aug. 2002.
- Y.H. Kim, H.Y. Youn, and H. Choo, ``Bi-active Load Balancer for Enhancing Scalability and Fault-tolerance of Cluster System," 2nd Int'l Conf. on Computer and Information Science, pp. 429-434, Aug. 2002.
- D. Kim, H. Choo, H.Y. Youn, and K. Kim, ``Performance Improvement of Inter-system Handoff for IMT 2000," Proc. of the IASTED Int'l Conf. on Wireless and Optical Communications, pp. 601-606, July 2002.
- W. Yoon, D. Lee, H.Y. Youn, S. Lee, and S.J. Koh, "A Combined Group/Tree Approach for Scalable Many-to-many Reliable Multicast," IEEE Infocom 2002, pp. 1336-1345, June 2002.
- M.M. Thaduri, S.M. Yoo, and H.Y. Youn, ``An Efficient Implementation of IDEA Encryption Algorithm using VHDL," Proc. Int'l Conf. On Security and Management, pp. 262-268, June 2002.
- S.C. Choi, H.Y. Youn, and H. Choo, ``An Efficient Locking Mechanism by Duplication Object Control in Distributed Lock Server Environment," Proc. 2nd KISS Data Storage System Conf., pp. 160-165, May 2002.
- W. Yoon, D. Lee, H.Y. Youn, and S.J. Koh, "Throughput Analysis of Tree-based Protocols for Many-to-many Reliable Multicast," 2002 IEEE Int'l Conf. on Communications, pp. 2523-2527, April 2002.
- W. Yoon, D. Lee, and H.Y. Youn, "On the Scalability of Many-to-many Reliable Multicast Sessions," Proc. IEEE IPDPS/PME0 02, pp. 255-259, April 2002.
- V.V. Shakhov, H. Choo, and H.Y. Youn, ``On Detecting Unsteady Demand in Mobile Networking Environment," Proc. Int'l Conf. On Computer Science (LNCS 2331), pp. 1108-1117, April 2002.
- H. Shin, D. Lee, S.J. Hyun, Y. Lee, M. Kim, and H.Y. Youn, ``Extensions to DNS for Supporting Internationalized Domain Names," Proc. 16th Int'l Conf. On Information Networking (LNCS 2344), pp. 9A-3.1-9A-3.9, Jan. 2002.
- D. Chung, H. Choo, H.Y. Youn, and D. Lee, ``Modified Virtual Layer Scheme for Location Management," Proc. 16th Int'l Conf. On Information Networking (LNCS 2343), pp. 10B-4.1-4.13, Jan. 2002.
- G.-L. Park, H.Y. Youn, and H. Choo, ``Optimal Checkpoint Interval Analysis Using Stochastic Petri Net," Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 57 - 60, Dec. 2001.
- D. Lee, D. Nam, H.Y. Youn, and C. Yu, ``The Implementation and Analysis of OCI-Based Group Communication Support in CORBA," Proc. of IEEE 2001 Pacific Rim Int'l Symp. on Dependable Computing," pp. 281-288, Dec. 2001.

- A.S.Rodionov, V.S.Antjufeev, H. Choo, H.Y. Youn, "About one problem of the CDMA nets modeling", Proc. of the ICSNET'2001 Int. Symp. on Modular Systems and Network Problems, Moscow, 19-21 Oct., 2001. P.205-209 (in Russian).
- Y.J. Choi, H.Y. Youn, S. Seol, and S.J. Yoo, "Distributed Test Using Logical Clock," 21st IFIP WG. 6.1 Proc. of the Int'l Conference on Formal Techniques for Networked and Distributed Systems, pp. 69-84, Aug. 2001.
- D. Chung, H. Choo, and H.Y. Youn, "Reduction of Location Update Traffic Using Virtual Layer in PCS," 25th Int'l Conf. on Parallel Processing, pp. 331-338, Aug. 2001.
- K. Fang, H.Y. Youn, H. Choo, and C. Yu, "Evaluation of Proactive Congestion Control on RED Gateway," Proc. of Parallel and Distributed Computing Systems Conference, pp. 235-242, Aug. 2001.
- K. Woo, C. Yu, D. Lee, H.Y. Youn, and Ben Lee, "Non-Blocking, Localized Routing Algorithm for Balanced Energy Consumption in Mobile Ad Hoc Networks," in Proc. of the Ninth Int'l Symp. on Modeling, Analysis and Simulation of Computer and Telecommunication Systems, pp. 325-332, Aug. 2001.
- H. Y. Youn, H.-S. Kim, H. Choo, and K. Kim, "A New Incremental Rerouting for handoff in Wireless ATM Networks," First Int'l Conf. on Human.Society@Internet, pp. 157-169, July 2001.
- D. Chung, H. Choo, H.Y. Youn, and J.-K. Park, "Enhanced Virtual Layer Scheme for Mobility Management in PCS Networks," Int'l Conf. On Parallel and Distributed Processing Techniques and Applications, pp. 2218-2224, June 2001.
- S. Lee, H.Y. Youn, and H. Choo, "Comparative Study on the Locking Mechanism of Distributed File Systems," Proc. of the 1st KIPS Storage System Conf., pp. 173-179, June 2001.
- H. Choo and H.Y. Youn, "Two-Dimensional TMR with Partial Majority Selection and Forwarding," IEEE Int'l Symp. on Industrial Electronics (ISIE 2001), pp. 239-245, June 2001.
- S.M. Moh, C. Yu, H.Y. Youn, B. Lee, and D. Han, "Mapping Strategies for Switch-Based Cluster Systems of Irregular Topology," 2001 Int'l Conf. On Parallel and Distributed Systems, pp. 158-165, June 2001.
- G.-W. Kim, H.Y. Youn, H. Choo, J.-W. Woo, and S.-M. Yoo, "Finding Neighbor Blocks on 3D RMESH in Constant Time without Condition," Int'l Conf. On Parallel and Distributed Processing Techniques and Applications, pp. 2225-2231, June 2001.
- A. S. Rodionov, H. Choo, H. Y. Youn, Tai M. Chung, and K. Park, "Efficient Random Process Generation for Reliable Simulation of Complex Systems," Int'l Conf. on Computational Science (ICCS 2001), pp. 912-921, May 2001.
- K. Fang, H.Y. Youn, and H. Choo, "On Parallel Simulation of the Performance of TCP," Proc. of the 3rd KSII Spring Conf., pp. 325-332, May 2001.
- H.S. Lee, H.Y. Youn, and H. Choo, "Performance Comparison of Location Management Schemes in Wireless PCS Networks," Proc. of the 15th KIPS Spring Conf., pp. 1193-1196, April 2001.
- S. Moh, C. Yu, H.Y. Youn, D. Han, . Lee, and D. Lee, "A Fast Tree-Based Barrier Synchronization on Switch-Based Irregular Networks," 7th High Performance Computing, pp. 273-282, Dec. 2000.

- H. Kim, D. Lee, and H.Y. Youn, "A Scalable Membership Service for Group Communications in WANs," IEEE 2000 Pacific Rim Int'l Symp. on Dependable Computing, pp. 59-66, Dec. 2000.
- H.Y. Youn et. al, "Dynamic Process Scheduling in Linux for Mobile Computing," in 13th Int'l Conference on Computer Applications in Industry and Engineering, pp. 220-223, Nov. 2000.
- S. Moh, C. Yu, H.Y. Youn, D. Han, B. Lee, and D. Lee, "A Fast Tree-based Barrier Synchronization without Nonmember Interference on 2-D Meshes," Parallel and Distributed Computing and Systems Conference, pp. 711-716, Nov. 2000.
- D. Nam, D. Lee, H.Y. Youn, and C. Yu, "Group Communication Support for CORBA using OCI," Parallel and Distributed Computing and Systems Conference, pp. 106-111, Nov. 2000.
- H. Youn, H. Choo, and H. Feng, "A New Cell Distribution Approach for Parallel ATM Switch," Parallel and Distributed Computing and Systems Conference, pp. 99-105, Nov. 2000.
- S.-I. Lee, Y. Park, M. Kim, H.Y. Youn, and B. Lee, "Automatic Test Case Generation using Multi-protocol Test Method," in Ninth IEEE Int'l Conference on Computer Communications and Network, pp. 360-367, Oct. 2000.
- S. Kang, H.Y. Youn, Y.H. Lee, D. Lee, and M. Kim "The Active Traffic Control Mechanism for Layered Multimedia Multicast in Active Network," in Proc. of the Eighth IEEE Int'l Symp. on Modeling, Analysis and Simulation of Computer and Telecommunication Systems, pp. 325-332, Aug. 2000.
- J. Lee, M. Kim, H.Y. Youn, Y. Hahm, and D. Lee, "Class-Based Proxy Server for Mobile Computers," in 2000 Int'l Conference on Parallel Processing, Workshop on Wireless Networks and Mobile Computing, pp. 559-566, Aug. 2000.
- Gookwhan Ahn, Kwangjo Kim, and Hee Yong Youn, "Tapping Alert Protocol," Proc. of IEEE WET-ICE2000 Workshop on Enabling Technologies, NIST, pp. 159-164, June, 2000.
- Y. Yoon, H.-S. Kim, D.S. Han, and H.Y. Youn, "Parallel Processing of Recurrence Operations in SMP Machine," in Int'l Conference on Parallel and Distributed Processing Techniques and Applications, pp. 1659-1665, June 2000.
- H.Y. Youn, C. Yu, D.S. Han, and D. Lee, "The Approaches for High Available and Fault-Tolerant Cluster Systems," in 2000 Int'l Workshop on Fault-Tolerant Control and Computing, pp. 107-116, May. 2000.
- D. Lee, J. Yang, H.Y. Youn, C. Yu, and S.J. Hyun, "Entity-Centric Scalable Concurrency Control for Distributed Interactive Applications," in 2000 IEEE Int'l Performance, Computing, and Communications Conf., Feb. 2000.
- S. Afroz, H.Y. Youn, and D. Lee, "Performance of Message Logging Protocols for NOWs with MPI," IEEE 1999 Pacific Rim Int'l Symp. on Dependable Computing, pp. 252-259, Dec. 1999.
- S.J. Chen, H.Y. Youn, C.S. Yu, and S.M. Yoo, "Heterogeneous Computing Based on PVM with Dynamically Varying Loads," IASTED Parallel and Distributed Computing and Systems (PDCS '99), pp. 794-799, Nov. 1999.
- H.Y. Youn, J. Zhang, and H. Feng, "ATM Switch Buffer Management for TCP Traffic Control," in 8th IEEE Int'l Conf. on Computer Communications and Networks, pp. 193-198, Oct. 1999.

- H.Y. Youn, E-N. Huh, and S.M. Yoo, "Load Balancing and Processor Utilization for Solving Linear Systems," in 1999 Parallel and Distributed Computing Systems, pp. 351-356, Aug. 1999.
- S.M. Yoo and H.Y. Youn, "An Efficient Partial Compaction Scheme for 3D Torus-connected Parallel Systems," in 1999 Parallel and Distributed Computing Systems, pp. 225-230, Aug. 1999.
- S.M. Yoo and H.Y. Youn, "A Task Compaction Scheme for 3D Torus Multicomputer Systems," in 1999 Int'l Conference on Parallel and Distributed Processing Techniques and Applications, pp. 414-419, June. 1999.
- H.Y. Youn, Edward Moffett, and S.M. Yoo, "Multiprocessor Task Scheduling for Optimizing Target Performance Measure," in 1999 IEEE High Performance Computing Conference, pp. 211-216, April, 1999.
- H.Y. Youn, "Data Management for Mobile Computing," in 1998 Korea-U.S. Technical Conference on Strategic Technologies, pp. 131-138, Oct. 1998.
- G.L. Park, H.Y. Youn, and B. Shirazi, "Checkpointing with Sample Comparison for Reliable Parallel Systems," in 1997 Parallel and Distributed Computing Systems, pp. 83-90, Oct. 1997.
- T.S. Chen, H.Y. Youn, and K.M. Kavi, "Scalable Software System Architecture for Parallel Logic Simulation of Large VLSI Designs," in 1997 Parallel and Distributed Computing Systems, pp. 59-64, Oct. 1997.
- H. Choo, H.Y. Youn, and S.M. Yoo, "An Efficient Submesh Allocation Scheme for 3D Torus Multicomputer Systems," in the 2nd Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, pp. 83-90, March 1997.
- S.M. Yoo and H.Y. Youn, "Finding Maximal Submeshes in 2D Mesh in the Presence of Failed Nodes," in the 2nd Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, pp. 97-103, March 1997.
- S.M. Yoo and H.Y. Youn, "Largest-Job-First-Scan-All Scheduling Policy for 2D Mesh-Connected Systems," in IEEE 6th Frontiers Massively Parallel Computing, pp. 135-142, Oct. 1996.
- H.Y. Youn et al., "Dynamic Task Scheduling and Allocation for 3D Torus Multicomputer Systems," 25th Int'l Conf. on Parallel Processing, pp. III-199-206, Aug. 1996.
- H.Y. Youn, H. Choo, and K.M. Kavi, "Performance Enhancement of MIN using Unit Step Buffering Scheme," in Proc. of 11th Int'l Conf. on Systems Engineering, pp. 578-583, July 1996.
- G.-L. Park, H.Y. Youn, and B. Shirazi, "Duplex with Self-Test: A Roll-Forward Checkpointing Scheme for High Performance Computing," High Performance Computing '96, pp. 314-319, April 1996.
- S.M. Yoo and H.Y. Youn, "An On-line Scheduling and Allocation Scheme for Real-time Tasks in 2D Meshes," in 7th IEEE Symp. on Parallel and Distributed Processing, pp. 660-667, Oct. 1995.
- H.Y. Youn and H. Choo, "Packet Switched Multistage Interconnection Networks with Multiple Packet Movement per Network Cycle," in 1995 Parallel and Distributed Computing Systems, pp. 183-188, Sept. 1995.
- S.M. Yoo and H.Y. Youn, "Efficient Task Allocation for 2D Mesh Parallel Systems," IEEE Int'l Conf. on Distributed Computing Systems, pp. 801-808, May 1995.

- K.M. Kavi and H.Y. Youn, "A Real-Time Performability Evaluation Tool," in AIAA Computing in Aerospace 10, pp. 246-255, March 1995.
- H.Y. Youn, S.M. Yoo, and B. Shirazi, "Task Relocation in Two-Dimensional Meshes," in 7th Int'l Conf. on Parallel and Distributed Computing Systems, pp. 230-235, Oct. 1994.
- C.G. Oh and H.Y. Youn, "Fault Tolerant Processor Arrays for Nonlinear Shortest Path Problem," in IEEE Int'l Conf. on Computer Design, pp. 79-83, Oct. 1994.
- H-B. Chen, B. Shirazi, J. Yeh, H.Y. Youn, and S. Thrane, "A Visualization Tool for Display and Interpretation of SISAL Programs," in 7th Int'l Conf. on Parallel and Distributed Computing Systems, pp. 734-739, Oct. 1994.
- J.Y. Lee and H.Y. Youn, "PSIM: Periodically Shifted Interleaved Memory System," in the 23rd Int'l Conf. on Parallel Processing, pp. 220-223, Aug. 1994.
- M. Vashi, V. Raj, and H.Y. Youn, "A Distributed Controller for System Level Integration," in the Fourth Great Lakes Symp. on VLSI, pp. 35-42, April 1994.
- K.M. Kavi, H.Y. Youn, and B. Shirazi, "A Performability Model for Soft Real-Time Systems," in the 27th Hawaii Int'l Conf. on System Sciences, Vol. II, pp. 571-579, Jan. 1994.
- H.Y. Youn and K.O. Lee, "Fault-Tolerant Sorting Using VLSI Processor Arrays," in the 1993 Workshop on Defect and Fault Tolerance in VLSI Systems, pp. 25-32, Oct. 1993.
- H.Y. Youn, K.O. Lee, and V.K. Raj, "Modified Odd-Even Sorting Network for High Performance," in the Sixth ISCA Int'l Conf. on Parallel and Distributed Computing Systems, pp. 432-437, Oct. 1993.
- C.G. Oh and H.Y. Youn, "On Concurrent Error Detection, Location, and Correction of FFT Networks," in the 23rd Int'l Symp. on Fault-Tolerant Computing, pp. 596-605, June 1993.
- J.Y. Lee, H.Y. Youn, and A.D. Singh, "Adaptive Voting for Faulty(VFF) Node Scheme for Distributed Self-Diagnosis," in the 23rd Int'l Symp. on Fault-Tolerant Computing, pp. 480-489, June 1993.
- S. Aranake, V. Raj, M. Vashi, and H.Y. Youn, "Optimal Register Allocation in High Level Synthesis," in the Third Great Lake Symp. on VLSI, pp. 71-75, March 1993.
- C.G. Oh, H.Y. Youn, and V.K. Raj, "Algorithm-Based Concurrent Error Detection for FFT Network," in the IEEE 1993 VLSI Design Conference, pp. 144-147, Jan. 1993.
- B. Kim, H.Y. Youn, and K.M. Kavi, "Hierarchical Interconnection Networks: Routing Performance in the Presence of Faults," in the Fourth Int'l Symp. on Parallel and Distributed Processing, pp. 162-165, Dec. 1992.
- C.G. Oh, H.Y. Youn, and V.K. Raj, "An Efficient Algorithm-Based Fault Tolerance Design with Extended Rearranged Hamming Checksum," in the 1992 IEEE Workshop on Defect and Fault Tolerance in VLSI Systems, pp. 237-246, Nov. 1992.
- J.Y. Lee, H.Y. Youn, and V.K. Raj, "An Efficient Dictionary Machine Using Hexagonal Processor Arrays," in the Fifth ISMM Int'l Conf. on Parallel and Distributed Computing and Systems, pp. 322-327, Oct. 1992.

- C.G. Oh, H.Y. Youn, and V.K. Raj, ``Rearranged Hamming Checksum for Matrix Computations with Algorithm-Based Fault Tolerance," 1992 IEEE Workshop on Fault-Tolerant Parallel and Distributed Systems, pp. 185-192, July 1992.
- Y. Mun and H.Y. Youn, ``On Performance Evaluation of Fault Tolerant Multistage Interconnection Network," in Proc. 1992 Symp. on Applied Computing, pp. 1-10, March 1992.
- C. Chevli and H.Y. Youn, ``Performance Enhancement of Multistage Interconnection Network with Nonuniform Traffic," in Proc. Third IEEE Symp. on Parallel and Distributed Processing, pp. 796-803, Dec. 1991.
- H.Y. Youn, ``An Efficient Multiprocessor Architecture for Image Processing in VLSI," in 1991 Int'l Conference on Computing and Information, pp. 496-505, May 1991.
- H.Y. Youn, ``Compact Testing with Intermediate Signature Analysis," in the Ninth IEEE VLSI Test Symp., pp. 47-52, April 1991.
- H.Y. Youn and C. Chevli, ``A Local Blocking Scheme for Performance Enhancement of MIN," in 1991 Symp. on Applied Computing, pp. 273-282, April 1991.
- H.Y. Youn and A.D. Singh, ``A New Processor Interconnection Structure for Fault Tolerant Processor Arrays," in Proc. Fourth Int'l Symp. on VLSI Design, pp. 261-266, Jan. 1991.
- C. Chevli and H.Y. Youn, ``An Efficient VLSI Network Bridge Architecture for Local Area Networks," in Proc. Int'l Conf. on Computing and Information, pp. 491-495, May, 1990.
- H.Y. Youn and A.D. Singh, ``Fault Tolerant Interconnect for On-Wafer Processor Communication," in Proc. IEEE Int'l Conf. on Communications/Supercomm, pp. 786-790, April, 1990.
- A.D. Singh and H.Y. Youn, ``Defect Tolerance Scheme for GigaFLOP WSI Architecture," in Proc. IEEE Int'l Conf. on Wafer Scale Integration, pp. 109-115, Jan. 1990.
- H.Y. Youn and A.D. Singh, ``An Efficient Channel Routing Algorithm for Defective Arrays," in Proc. IEEE Int'l Conf. on Computer-Aided Design, pp. 432-435, Nov. 1989.
- P.K. Rhee, J.H. Kim and H.Y. Youn, ``A Novel Reconfiguration Scheme for 2-D Processor Arrays," in Proc. Int'l Conf. on Computer-Aided Design, pp. 230-233, Nov. 1989.
- H.Y. Youn, A.D. Singh and J.H. Kim, ``An Efficient Reconfiguration Scheme for WSI of Cube-Connected Cycles with Bounded Channel Width," in Proc. 1989 IEEE Int'l Workshop on Defect and Fault Tolerance in VLSI Systems, Oct. 1989.
- H.Y. Youn and A.D. Singh, ``A Near Optimal Adaptive Row Modular Design for Efficiently Reconfiguring Processor Array in VLSI," in Proc. Int'l Conf. on Parallel Processing, 1261-265, Aug. 1989.
- H.Y. Youn and A.D. Singh, ``Highly Efficient Design for Reconfiguring Processor Array in VLSI," in Proc. Int'l Conf. on Parallel Processing, pp. 375-382, Aug. 1988.
- H.Y. Youn and A.D. Singh, ``Near Optimal Embedding of Binary Tree Architectures in VLSI," in Proc. 8th IEEE Int'l Conf. on Distributed Computing Systems, pp. 122-129, June 1988.
- H.Y. Youn and A.D. Singh, ``On Area Efficient and Fault Tolerant Tree Embedding in VLSI," in Proc. Int'l Conf. on Parallel Processing, pp. 171-178, Aug. 1987.

C. BOOK and BOOK CHAPTERS

- H.Y. Youn et al., ``Computers: Tools for an Information Age,’’ H.L. Capron and J.A. Johnson, Prentice Hall, 8ed, Korean Language Edition, Hongreung Science Publishing Co., 2012
- H.Y. Youn, Chansu Yu, Ben Lee, S.M. Moh, ``Energy Efficient Multicast in Ad Hoc Networks,’’ Handbook of Ad Hoc Wireless Networks (CRC),” pp. 387 – 398, Dec. 2003.
- H.Y. Youn, Chansu Yu, Ben Lee, ``Routing Algorithms for balanced Energy Consumption,” Handbook of Ad Hoc Wireless Networks, CRC Press, 2002.

D. PATENT REGISTRATION

- South Korea, 20180503, 10-1856552, WIRELESS SENSOR NETWORK SYSTEM WITH IMPROVED EVENT DETECTION EFFICIENCY, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Xianda Chen, Sang Young Kim, Jun Seok Song, Byoung Hoo Song
- South Korea, 20170622, 10-1752063, METHOD FOR EFFICIENT MOBILE MANAGEMENT IN HETEROGENEOUS NETWORK AND MOBILE TERMINAL USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Xianda Chen, Young Kyo Jung, Jung Joon Lee
- South Korea, 20161207, 10-1686346, COLD DATA EVICTION METHOD USING NODE CONGESTION PROBABILITY FOR HDFS BASED ON HYBRID SSD, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Jung Joon Lee, Na Young Bang
- South Korea, 20161107, 10-1675694, BLOCK REPLACEMENT METHOD OF SSD BASED ON BLOCK POPULARITY, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Yeon Joong Ryu, Sang Hyun Yoo, Dong Young Chung
- South Korea, 20161010, 10-1666740, METHOD FOR GENERATING ASSOCIATION RULES FOR DATA MINING BASED ON SEMANTIC ANALYSIS IN BIG DATA ENVIRONMENT, Hee Yong Youn, Kyung Tae Kim, Na Young Park, Hee Jung Park, Young Ho Seo
- South Korea, 20161010, 10-1666758, METHOD FOR SEARCHING DATA USING ENHANCED BLOOM FILTER, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Seung Wan Kim, Byung Joon Lee
- South Korea, 20160912, 10-1658736, WSN CLUSTERING METHOD USING OF CLUSTER TREE STRUCTURE WITH LOW ENERGY LOSS, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Ji Hyun Choi, Byung Joon Lee, Sung Min Jung
- South Korea, 20160817, 10-1650661, METHOD FOR DETECTING EVENTS WITH SENSOR NETWORK IMPROVING PERFORMANCE AND SENSOR NETWORK SYSTEM USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Man Yoon Kim, Seung Wan Kim, Young Ho Seo, Byung Joon Lee
- South Korea, 20160808, 10-1648317, METHOD FOR SEARCHING DATA USING PARTITIONED BLOOM FILTER FOR SUPPORTING ITEM ELIMINATION, CACHE MEMORY APPARATUS AND STORAGE APPARATUS USING THE SAME, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Ji Hyun Choi, Young Kyo Jung
- South Korea, 20160726, 10-1644750, SENSER NODE AND SERVER, AND WIRELESS SENSOR NETWORK SYSTEM COMPRISING THEM AND METHOD OF MANAGING WIRELESS

SENSOR NETWORK, Hee Yong Youn, Man Yoon Kim, Seung Wan Kim, Young Ho Seo, Byung Joon Lee

- South Korea, 20160708, 10-1639944, EFFICIENT AND PROMPT HANDOVER METHOD IN LTE-BASED SYSTEMS BY PREDICTION THE TARGET ENODEBS, AND THEREOF BASE STATION, Hee Yong Youn, Kyungtae Kim, Nayoung Park, Sanghyun Yoo, Byungjun Lee, Xianda Chen
- South Korea, 20160708, 10-1639947, HADOOP PREEMPTIVE DEADLINE CONSTRAINT SCHEDULING METHOD, EXECUTION PROGRAM THEREOF METHOD AND RECORDED MEDIUM OF THE PROGRAM, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Yeonjoong Ryu, Ihsan Ullah, Byungjun Lee
- South Korea, 20160202, 10-1704936, BLOCK REPLACEMENT METHOD BASED ON RECENCY, AND THEREOF HYBRID STORAGE SYSTEM, Hee Yong Youn, Kyung Tae Kim, Byung Joon Lee, Sang Hyun Yoo, Dong-young Chung
- South Korea, 20160202, 10-1675198, METHOD FOR OBTAINING SOLUTIONS BASED ON WEIGHTING ANALYTIC HIERARCHY PROCESS, GREY NUMBER AND ENTROPY FOR MULTIPLE-CRITERIA GROUP DECISION MAKING PROBLEMS, Hee Yong Youn, Oh Kyung Hwan, Hyung Koo Kang, Jong-chang Park, Sul Woo Sik, Byung Joon Lee, Kyung Tae Kim
- South Korea, 20151217, 10-1580048, METHOD FOR DISTRIBUTED SEMANTIC SERVICE DISCOVERY FOR MANET ENVIRONMENT AND MOBILE NODE DEVICE USING THE SAME, Hee Yong Youn, Jongchang Park, Minseok Choi, Woosik Seol, Kyunghwan Oh, Kyungtae Kim, Byungjun Lee
- South Korea, 20151007, 10-1560523, OPERATING METHOD OF WIRELESS SENSOR NETWORKS CONSIDERING ENERGY EFFICIENCY, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Yeonjoong Ryu, Heejung Park, Byungjun Lee
- South Korea, 20150814, 10-1546252, SENSER NODE AND SERVER, AND WIRELESS SENSOR NETWORK SYSTEM COMPRISING THEM AND METHOD OF MANAGING WIRELESS SENSOR NETWORK, Hee Yong Youn, Kyungtae Kim, Manyoon Kim, Seungwan Kim, Youngho Seo, Byungjun Lee, Hogeun Song
- America, 20150519, 9037135, METHOD FOR HANDOVER OF MOBILE TERMINAL, Hee Yong Youn, Hwiwoon Jung, Junyeol Choi, Hyunggu Kang, Heesung Kim
- South Korea, 20140704, 10-1418307, METHOD FOR OBTAINING SOLUTIONS BASED ON INTERVAL GREY NUMBER AND ENTROPY FOR MULTIPLE-CRITERIA GROUP DECISION MAKING PROBLEMS, Hee Yong Youn, Hyunggu Kang, Daegun Kim, Heesung Kim, Hwiwoon Jung, Gunyong Park, Hogeun Song
- South Korea, 20140507, 10-1394247, METHOD AND SYSTEM FOR RECOMMENDING CONTEXT-AWARE SERVICES BASED ON USER RELATIONSHIP, Hee Yong Youn, Baeksun Sim, Kwangmyung Kim, Heesung Kim, Kyungtae Kim, Gunyong Park, Hogeun Song, Hyunggu Kang, Hwiwoon Jung
- South Korea, 20140414, 10-1373894, GENERATING METHOD FOR BALANCED CHAIN TOPOLOGY IN WIRELESS SENSOR NETWORKS, Hee Yong Youn, Seungwook Han, Kyungtae Kim, An Kyusung
- South Korea, 20140306, 10-1373894, TIME CRITICAL CONTEXT AWARE SERVICE MODELING METHOD AND SYSTEM FOR CONTEXT AWARENESS COMPUTING, Hee Yong Youn,

Seungwook Han, Kyungtae Kim, Zhuxian Cui, Heesung Kim, Hyochan Bang, Malhee Kim, Donghwan Park

- South Korea, 20140204, 10-1360835, A METHOD FOR OFFERING HANDOVER OF MOBILE TERMINAL, Hee Yong Youn, Hwiwoon Jung, Junyeol Choi, Hyunggu Kang, Heesung Kim
- South Korea, 20130904, 10-1297006, DISTRIBUTED CONTEXT INFERENCE BASED ON SIMILARITY AND HIERARCHICAL CONTEXT MODELING, Hee Yong Youn, Back Sun Sim, Kyung Tae Kim
- South Korea, 20130901, 10-1293005, VIDEO ON DEMAND SUPPORTING IPTV SERVICE IN WIRED/WIRELESS INTEGRATED ENVIRONMENT, Hee Yong Youn, Hyun Chul Lee, Kyung Tae Kim
- South Korea, 20130702, 10-1291400, EFFICIENT BATCHING IN MOBILE IPTV USING CSD(COMBINING STATIC MULTICASTING WITH DYNAMIC MULTICASTING, Hee Yong Youn, Chi Hyun Cho, Kyung Tae Kim
- South Korea, 20130702, 10-1291400, EFFICIENT BATCHING IN MOBILE IPTV USING CSD(COMBINING STATIC MULTICASTING WITH DYNAMIC MULTICASTING, Hee Yong Youn, Chi Hyun Cho, Kyung Tae Kim
- South Korea, 20130512, 10-1282786, DYNAMIC LOAD BALANCING AND AGENT POOL REDUCING RESPONSE TIME IN PERVASIVE COMPUTING ENVIRONMENT, Hee Yong Youn, Young Joon Lee, Geon Yong Park, Ho Geun Song
- South Korea, 20130205, 10-1270813, CONTEXT INFERENCE USING DEMPSTER SHAFER THEORY IN PERVASIVE COMPUTING ENVIRONMENT, Hee Yong Youn, Zhong Yuan Li, Seungwook Han
- South Korea, 20130202, 10-1196605, PREDICTION-BASED DYNAMIC LOAD BALANCING UTILIZING AGENT MIGRATION IN MULTI-AGENT SYSTEMS, Hee Yong Youn, Hyungdo Lee, Seunwook Han
- America, 20130110, No. 8,296,454, PREDICTION-BASED ADJUSTMENT OF DYNAMIC THREAD POOL AND AGENT PLATFORM, Hee Yong Youn, KChi Hyun Cho, Kyung Tae Kim
- South Korea, 20120104, 10-1104999, ENHANCED METADATA SERVICE PERFORMANCE THROUGH THE MASTER METADATA SERVER FOR CLOUD COMPUTING, Hee Yong Youn, Chang Hun Lyu, Sun Sik Park, Myung Jin Hwang
- South Korea, 20120102, 10-1103941, VERTICAL HANDOVER BASED ON THE PREDICTION OF MOBILITY OF MOBILE NODE, Hee Yong Youn, Byung Jun Lee, Kyung Tae Kim
- South Korea, 20111103, 10-1081933, AN ENERGY EFFICIENT ROUTING PROTOCOL IN WIRELESS SENSOR NETWORKS, Hee Yong Youn, Kyung Tae Kim, Jae Hyun Choi, Byung Jun Lee
- South Korea, 20111103, 10-1081932, APPARATUS AND METHOD OF LOAD DISPERSION IN MULTI-AGENT SYSTEM, Hee Yong Youn, Seung Wook Han, Sung Keun Song, Byung Ha son, Myung Jin Hwang, Seung Yup Shin, Yong Hee Lee
- South Korea, 20111027, 10-1079477, LOAD BALANCING SCHEME REFLECTING THE WORKLOAD OF AGENT, Hee Yong Youn, Seung Wook Han, Yong Hee Lee, Chang Hun Yoo

- South Korea, 20111027, 10-1079389, CA-MAC: CONTEXT ADAPTIVE MAC PROTOCOL FOR WIRELESS SENSOR NETWORKS, Hee Yong Youn, Hyun Chul Lee, Kyung Tae Kim, Myung Jin Hwang
- America, 20110419 , No. 7,929,479, METHOD AND SYSTEM FOR MVS OVER MMR NETWORK USING DYNAMIC MODIFICATION OF MCS LEVEL, Hee Yong Youn, Chi Hyun Cho
- America, 20110329 , No. 7,916,017, SECURITY METHOD OF SYSTEM BY ENCODING INSTRUCTIONS Hee Yong Youn, Gi Young Jang
- America, 20110118 , No.7,873,167, SYSTEM AND METHOD FOR EFFECTIVELY PRE-DISTRIBUTING KEY FOR DISTRIBUTED SENSOR NETWORK, Hee Yong Youn, Sung Jin Choi
- South Korea, 20101230, 10-1006662, CONTEXT AWARENESS MODELING METHOD AND SYSTEM FOR CONTEXT AWARENESS COMPUTING, Hee Yong Youn, Seung Wok Han, Sung Keun Song, Yong Hee Lee, Jae Duk Yoo
- South Korea, 20100713, 10-0971351, METHOD FOR TRANSMITTING NEAR VIDEO ON DEMAND (NVOD) USING CATCH AND REST (CAR) AND SUB-CHANNELS, Hee Yong Youn, Jong ik Jang
- South Korea, 20100531, 10-962994, METHOD AND SYSTEM FOR MVS OVER MMR NETWORK USING DYNAMIC MODIFICATION OF MCS LEVEL, Hee Yong Youn, Chi Hyun Cho
- South Korea, 20100730, 10-0974271, SYSTEM AND METHOD FOR RELAYING MULTICAST BROADCAST SERVICE, Hee Yong Youn, Chi Hyun Cho
- South Korea, 20091001, 10-0921155, AGENT PLATFORM, MULTI AGENT SYSTEM AND MESSAGE TRANSMITTING/RECEIVING METHOD OF AGENT PLATFORM AND MULTI AGENT SYSTEM, Hee Yong Youn, Yang Suk Youn
- America, 20101228 , No. 7,860,938, AGENT PLATFORM, MULTIAGENT SYSTEM AND MESSAGE TRANSMITTING/RECEIVING METHOD THEREOF, Hee Yong Youn, Yang Suk Youn
- South Korea, 20090122, 10-0881112, OPERATING METHOD OF WIRELESS SENSOR NETWORKS CONSIDERING ENERGY EFFICIENCY, Hee Yong Youn, Gi Young Jang
- South Korea, 20090604, 10-0902478, AGENT PLATFORM , Hee Yong Youn, Sung Wook Hwang
- South Korea, 20091001, 10-0921152, AGENT PLATFORM, Hee Yong Youn, Ae Hee Park
- South Korea, 20090205, 10-0883517, PREDICTION-BASED DYNAMIC THREAD POOL MANAGEMENT METHOD AND AGENT PLATFORM USING THE SAME, Hee Yong Youn, Ji Hun Kim
- America, 20100119 , No. 7,650,375, QUANTITATIVE ESTIMATING SYSTEM FOR GROUPING OF MULTIAGENT AND METHOD THEREOF, Hee Yong Youn
- America, 20100413 , No, 7,697,562, APPARTUS AND METHOD FOR TRANSMITTING DATA IN A WIRELESS LOCAL AREA NETWORK, Hee Yong Youn
- South Korea, 20080205, 10-0803579, QUANTITATIVE ESTIMATING SYSTEM FOR GROUPING OF MULTIAGENT AND METHOD THEREOF, Hee Yong Youn, Hyun Go

- South Korea, 20081105, 10-0868323, EVENT FILTERING SYSTEM AND METHOD THEREOF Hee Yong Youn, Kyu Bong Cho
- South Korea, 20071105, 10-0775504, TARGET DETECTION SYSTEM FOR SAVING ENERGY CONSUMPTION AND METHOD THEREOF, Hee Yong Youn, Thanh Hai Trinh
- South Korea, 20080312, 10-0814645, EFFICIENT KEY PRE-DISTRIBUTION METHOD FOR SECURE DISTRIBUTED SENSOR NETWORKS, Hee Yong Youn, Sung Jin Choi
- South Korea, 20070130, 10-0679091, PACKET SCHEDULING APPARATUS IN BLUETOOTH ENVIRONMENTAL AND METHOD THEREOF, Hee Yong Youn, Hye Hwan Ahn, Eung Ju Lee
- South Korea, 20070628, 10-0735667, CORBA-BASED ADAPTIVE BRIDGING POOL SYSTEM AND METHOD THEREOF, Hee Yong Youn, Sung Keun Song
- South Korea, 20061212, 10-0659172, CLUSTERING SYSTEM CAPABLE OF PROXY IN WIRELESS SENSOR NETWORK AND METHOD THEREOF, AND RECORDING MEDIUM THEREOF, Hee Yong Youn, Sang Yong Park
- South Korea, 20070213, 10-0684497, CLUSTERING SYSTEM CAPABLE OF PROXY IN WIRELESS SENSOR NETWORK AND METHOD THEREOF, AND RECORDING MEDIUM THEREOF, Hee Yong Youn, Kyung Tae Kim
- South Korea, 20070628, 10-0735669, CORBA-BASED ADAPTIVE BRIDGING POOL SYSTEM AND METHOD THEREOF, Hee Yong Youn, Hyun Go
- South Korea, 20080630, 10-0844101, DYNAMIC WINDOW-BASED ADAPTIVE FAULT MONITORING SYSTEM AND METHOD THEREOF, Hee Yong Youn, Soo Myung Lee
- South Korea, 20061121, 10-0650389, INDEXING SYSTEM OF MOVING OBJECTS USING TIME-BASED PARTITIONING WITH SECOND-DIMENSIONAL STRUCTURE AND METHOD THEREOF, Hee Yong Youn, Youn Chul Jung
- South Korea, 20070510, 10-0718907, LOAD BALANCING SYSTEM BASED ON FUZZY GROUPING AND THE LOAD BALANCING METHOD, Hee Yong Youn, Hyo Chul Ahn

Course Title: HW and SW components for building smart IoT

Date	Topic	Details
Day 1	Tagging & sensing	- Various tagging technologies, sensors and sensor networks - Microscopic device technologies including MEMS, Nano, Robot
Day 2	Context awareness	- Life-cycle of context-awareness - Composite context awareness including situation awareness, mobile awareness, spatial/temporal awareness
Day 3	Intelligent system	- Basic concepts, environments supporting intelligent systems - Various intelligent system models and their usages
Day 4	NG smart IoT	- New breed of smart IoT such as CPS, M2M - Fog computing/ Edge computing
Day 5	Challenges and issues with smart IoT	- Hurdles needed to be overcome for making smart IoT more viable - Future of smart IoT

Target Audience

The course is intended to cater to an audience spanning undergraduate students to the engineers/researchers in the related field. The aim is to make participants affluent in smart IoT to the extent that they are in a position to pursue independent development and research. More specifically the course is meant for:

- 1) Undergraduate/graduate students of electrical engineering, computer science, and the related areas
- 2) Researchers, scientists, and faculty members working in the related areas
- 3) Personnel from the industry working in the related areas

VC/1815
31/01/20



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R&D Institute of Science and Technology
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Details of Professor & Course:

Name of the Professor	Prof. Dr. Hee Yong Youn (CV Attached)
University & Country	Sungkyunkwan University, South Korea
Title of the Course	Hardware and Software components for building smart IoT
Department	Electronics and Communication Engineering
Dates of the Course	February 17 to 21, 2020
Total No. of Hours	15
No. of Credits	1
Category	Industry/ Higher Institute Learning
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by:

Director – Directorate of Intl. Relations


HoD


Dean


Director (Academic)


Vice Chancellor

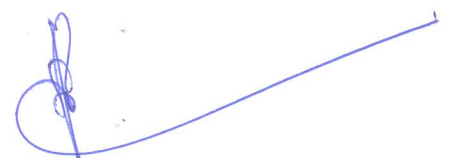
Prof. Dr. techn. Koteswara Rao Anne
Director Academics

Prof. V. S. S. Kumar
Vice Chancellor

Course code: 1157 EC911

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SCHOOL OF ELECTRICAL AND COMMUNICATION

DEPARTMENT OF ECE

VTU R15 B.TECH - ECE

ACADEMIC YEAR 2019-2020

SPECIALIZED COURSE ATTENDANCE

FACULTY HANDLED: PROF.DR. HEE YONG YOUN, COLLEGE OF SOFTWARE SUNGKYUNKWAN UNIVERSITY SUWON, KOREA

COURSE CATEGORY: INDUSTRY/HIGHER LEARNING INSTITUTE INTERACTION

COURSE CODE/ TITLE: HARDWARE AND SOFTWARE COMPONENTS FOR BUILDING SMART IoT

SEMESTER: EVEN

S.NO	VTU NO	NAME	17.02.2020				18.02.20		19.20.2020				20.02.2020					Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1.	vtu10684	KRISHPAI SINDHUMARY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
2.	vtu10851	PARVATHA REDDY SRAVANI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
3.	vtu11127	B MAGESH KUMAR	1	2	3	4	5	6	A	A	7	8	9	10	11	12	13	
4.	vtu11246	LOGESHWARAN C	1	2	3	4	5	6	A	A	7	8	9	10	11	12	13	
5.	vtu11617	S.S.DAWOOD SARJOON	1	2	3	4	5	6	7	8	9	10	A	A	11	12	13	
6.	vtu12249	R.STEVENSON	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
7.	vtu6946	NULA SAI TEJA.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
8.	vtu7305	RAGHAVA S	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
9.	vtu7350	SATYA MANIKANTA HARSH.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
10.	vtu7400	VAMSI K	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
11.	vtu7459	RAM JAYANTH KASHYAP S V	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
12.	vtu7467	VADDI DEVIKA.	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	
13.	vtu7794	AKKIMI VEERAREDDY.	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	
14.	vtu7834	ANAKANA GURUMOHAN REDDY.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
15.	vtu7963	KOLLI SRAVANI.	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	
16.	vtu8009	BENNADA JAYANAGA TEJA.	1	2	A	A	3	4	5	6	7	8	9	10	11	12	13	
17.	vtu8052	SAI NARAYANA P V N	1	2	A	A	3	4	5	6	7	8	9	10	11	12	13	
18.	vtu8547	SAMA SUMANTH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
19.	vtu8561	CHARAN KUMAR	A	A	A	1	2	3	4	5	6	7	8	9	10	11	12	

											9	10								
20.	vtu9023	K JAYA SAI TEJA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
21.	vtu9343	KATTA SURESH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
22.	vtu9350	NAYAKANTI REVANTH REDDY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	
23.	vtu9374	B VINEETH KUMAR REDDY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	
24.	vtu9378	DESI REDDY SAI KUMAR REDDY	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Ramkrishna
25.	vtu9444	KETHA REVANTH SAI KUMAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Ramkrishna	
26.	vtu9523	PABBATHI SASHANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Arjun Reddy	
27.	vtu9656	INDUKURU ARJUN REDDY	A	A	1	2	3	4	5	6	7	8	A	A	9	10	11	12	13	Arjun Reddy
28.	vtu9663	BANDI MANOJ KUMAR REDDY	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Manoj Reddy
29.	vtu9774	MEDA RAMAKRISHNA SAI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	
30.	vtu9846	CHILAKALA VINEELA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	
31.	vtu9853	SAMALA VAMSI KRISHNA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	
32.	vtu9858	PODAPATI ANOOTHYA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Vineetha	

HOD

S No	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Course Code	Course Name	Stu_Subject_PassFail	Stu_Grade
1	VtU11246	LOGESHWARAN C	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
2	VtU9350	NAYAKANTI REVANTH REDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
3	VtU9846	CHILAKALA VINEELA	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
4	VtU12249	R STEVENSON	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
5	VtU9374	BHUMI REDDY VINEETH KUMAR REDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
6	VtU9656	INDUKURU ARJUN REDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
7	VtU11617	DAWOOD SARJOON S S	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
8	VtU9444	KETHA REVANTH SAI KUMAR	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
9	VtU7963	KOLLI SRAVANI	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	RA	RA
10	VtU11127	MAGESHKUMAR B	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
11	VtU9663	BANDI MANOJ KUMAR REDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
12	VtU6946	NULA SAI TEJA	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
13	VtU9343	KATTA SURESH	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	NE	NE
14	VtU8052	PENTAPATI VINAY NAGENDRA SAI NARAYANA	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	Pass	D
15	VtU10851	PARVATHAREDDY SRAVANI	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	NE	NE
16	VtU7467	VADDI DEVIKA	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	RA	RA
17	VtU8009	BENNADA JAYANAGA TEJA	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	Pass	D
18	VtU7305	SAMUDRALA RAGHAVA	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
19	VtU9774	MEDA RAMA KRISHNA SAI	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
20	VtU7794	AKKIMI VEERAREDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	RA	RA
21	VTU8561	BATTA CHARAN KUMAR	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	Pass	D
22	VTU8547	SAMA SUMANTH	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
23	VtU9023	KAMEPALLI JAYA SAI TEJA	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	NE	NE
24	VtU9378	DESIREDY SAIKUMAR REDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
25	VtU7400	KARNATI VAMSI	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
26	VtU7350	DULAM SATYA MANIKANTA HARISH	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
27	VtU10684	KRISTIPATI SINDHU MARY	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	NE	NE
28	VtU7834	ANKANA GURUMOHANREDDY	B.Tech	ECE	1157EC943	Hardware and Software Components for building Smart IoT	NE	NE
29	VtU9523	PABBATHI SASHANK	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA
30	VtU9853	SAMALA VAMSIKRISHNA	B.Tech	ECE	1157EC943	Hardware and Software Components for Building Smart IoT	RA	RA



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Professor's Feedback

Name & University	Prof. Dr. Hee Yong Youn, Sungkyunkwan University, South Korea, South Korea
Course Title	Hardware & Software components for building Smart IoT (15Hrs/ 1 credit)
Course Duration	February 17 to 21, 2020
Department	Electronics and Communication Engineering
No of Participants	21 students

Your feedback about course offered (Such as level of Students Participation, arrangements, Coordination etc.,).

Students Participation: Most students were attentive, while some students were very interactive showing deep interests in the course materials

Arrangements: Everything was in order, and the lecture equipment and facilities were arranged properly

Coordination: The coordination personnel were very helpful for organizing the lectures and proctoring the test

Overall experience at Vel Tech

I noticed that Vel Tech has quite lively and animated atmosphere. The students seem eager to learn and perceive state-of-the-art technologies and the culture abroad. I have had such good impression on Vel Tech as flourishing high tech college.

I also met a faculty member, Prof. Ritwik Haldar, who has common research interest with me. We are coauthoring research papers, and my visit to Vel Tech allows us valuable and tangible opportunity of global collaboration.

Would you like to visit Vel Tech again? Why?

I would like to visit Vel Tech again since I would like to interact with such motivated students and offer lectures which will be beneficial to them. It will also enable me to conduct research with the faculty member in Vel Tech.

Any other Suggestions:

The classroom size needs to be adjusted according to the number of attendees.

(Signature of Professor)A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Our Ref. No: 2019-2020/ VF 221 & 222

Your Ref. No:

Submitted for the Approval:

Name : Prof. Dr. Hee Yong Youn

University : Sungkyunkwan University, South Korea

Course Titles : 1. Structure and Application of smart IoT
2. Hardware & Software components for building Smart IoT

Department : Electronics and Communication Engineering

Course Dates: Course1- February 10 to 14, 2020
Course 2- February 17 to 21, 2020

Duration : 15 Hrs each

No. of credits: 1 each (Under Higher Institute Learning)

No. of Students: Course 1- 42 Students ✓

Course 2- 21 Students ✓

Sl.No	Description	Amount in INR	Amount in USD
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90,000	1251 ✓
2	Flight ticket reimbursement	47,518	651 ✓
	Total	1,37,518	1902

(Rupees One lakh thirty seven thousand five hundred and eighteen only)

In this regard, I request your approval for transferring the amount in USD to the following Account,

Name : Hee Yong Youn

Bank Name: Kookmin Bank

Acc. No : 298-21-0131-261

Swift Code : CZNBRKSE

Branch : Jeongja

Thank You,

S. Sivaperumal

Dr. S. Sivaperumal
Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Entered in Budget Register

PG. 11 81.53

atshorwar
26/02/2020



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. as of UGC Act, 1956)

Our Ref. No.: 2019-2020/VF 221 & 222

Your Ref. No.:

Submitting for the Approval:

Madam,

Sub: Requesting approval for Flight Ticket booking

The following professor accepted to deliver short courses to our Electronics and Communication Engineering students. Requesting approval for reimbursing the following flight ticket.

Name : Prof. Dr. Hee Yong Youn (CV attached)

University & Country: Sungkyunkwan University, South Korea

Course Titles : 1. Structure and application of smart IoT
2. HW and SW components for building smart IoT

Course Dates : February 10 to 21, 2020

Duration : 15 Hrs each

No. of credits : 1 each (Under Higher Institute Learning)

Flight Details:

Flight	Date of Journey (Onward & Return)	Cost of the ticket in INR
South Korea to Chennai & return with travel Insurance (647700+ 142400 = 790100 Korean Won)	08 FEB, 2020 & 29 February, 2020	47,518 ✓
	TOTAL	47,518

Attached the flight tickets with this letter.

Reimbursement Fare : INR 47518 (Forty seven thousand five hundred and eighteen only)

Thank you

Sivaperumal S

8803 2/10/2020

[Signature]