

BOONG YEOL RYOO, Ph.D.

Associate Professor
Department of Construction Science, College of Architecture
Texas A&M University

Office Address

3337 TAMU, Francis Hall Room 316
Department of Construction Science
College of Architecture
Texas A & M University
College Station, Texas 77843-3137
Tel: 979-845-4343 (Office)
Fax: 979-869-1572 (Dept.)
Email: bryoo@tamu.edu

ACADEMIC DEGREES

Ph.D., University of Wisconsin-Madison (September 8, 1992~August 27, 1995)

Department of Civil and Environmental Engineering
Madison, Wisconsin, USA
Major: Construction Engineering and Management
Minor: Computer Science (Artificial Intelligence and Computer Graphics)
Thesis: Selection of Highway Retaining Structure: Implementation and Evaluation using Bayesian-Fuzzy Logic

M.S., University of Wisconsin-Madison (September 4, 1990~August 23, 1992)

Department of Civil and Environmental Engineering
Madison, Wisconsin, USA
Major: Construction Management and Engineering
Thesis: Cost Estimation of Water Treatment Plant Construction

B.S., Yonsei University (March 2, 1979~February 21, 1983)

Department of Civil Engineering
Seoul, Korea
Thesis: Image Restoration Using Short-Range Photogrammetric Techniques

ACADEMIC APPOINTMENTS (FULL-TIME)

Texas A&M University (September 2015~Present)

Associate Professor
Department of Construction Science
College Station, TX USA

Texas A&M University (September 2008~August 2015)

Assistant Professor
Department of Construction Science
College Station, TX USA

Florida International University (June 2004~August 2008)

Assistant Professor
Department of Construction Management

Miami, Florida, USA

Purdue University (December 2002~June 2004)

Research Associate

School of Civil Engineering

West Lafayette, Indiana, USA

Hanyang University (November 1999~January 2001)

Brain Korea 21 Professor

Civil and Environmental Engineering Department

Ansan, Korea

INDUSTRY APPOINTMENTS

Intellix Technologies Co. (February 2000~November 2002)

Seoul, Korea

Job Title: CEO & Director of Research and Development

- Founded and operated Intellix, a construction IT company
- Develop and deliver a marketing and business plan for Intellix
- Developed and commercialized integrated management information systems for the construction industry
- Developed a full Contents Management System (CMS) using 4-Tier Architecture

Dmind Far East Korea Co. (April 2001~July 2002)

Seoul, Korea

Job Title: CEO

- Founded and operated the first overseas office of Dmind Corporation, an e-Business solution company in New York, USA
- Contributed to Dmind receiving more than \$1.4 million as additional assets
- Administered the management team in identifying and correcting critical problems; strengthened its gross margins, improved business processes, information systems, and resolved quality issues
- Supervised the localization of Dmind's e-Business solutions and customization
- Introduced its Contents Management System (CMS) to the Korean market

Samsung SDS Co. (October 1995~December 1999)

Consultation and System Integration Division

Seoul, Korea

Job Title: Senior Consultant and Project Manager

- Contributed to the construction IT department expansion
- Provided technical framework and data for construction informatization
- Introduced a modern framework for software development and project management for system integration or system management projects
- Developed and supervised web-based and client/server-based construction information systems including construction/project management systems, specification writers, Enterprise Resource Planning (ERP) systems, and Supply Chain Management (SCM) systems
- Upgraded construction management systems for US construction management companies in Korea

Daewoo Engineering Co. (July 1985~July 1990)

Seoul, Korea

Job Title: Project Manager/Engineer

- Designed and supervised 18 highways, 17 concrete and steel box bridges, 4 industrial plants, 2 subways, 1 underground shopping mall, 1 soccer stadium, and 1 theme park
- Developed computer programs (structural analysis, scheduling, and highway design and estimation)

Korean Army Corps of Engineers (March 1983~June 1985)

Seoul, Korea

Job Title: First Lieutenant/Military Engineering Officer and System Engineer

- Supervised building construction projects (two apartments and military facilities)
- Developed an inventory management system for the Korean Army

ACADEMIC POSITION APPOINTMENT (PART-TIME)

Chung-Ang University (2001~2002)

Estate School of Construction Engineering

Seoul, Republic of Korea

*Lecturer***Sejong University (March 2001~February 2002)**

Civil and Environmental Engineering Department

Seoul, Republic of Korea

*Adjunct Professor***Chung-Ang University (March 2001~February 2002, September 1999~February 2000)**

Estate School of Construction Engineering

Seoul, Republic of Korea

*Lecturer***Hanyang University (September 1997~November 1999)**

Department of Civil Engineering Department

Ansan, Republic of Korea

*Lecturer***Yonsei University (September 1996~August 1998)**

Department of Civil Engineering

Seoul, Republic of Korea

*Lecturer***University of Wisconsin-Madison (September 1992~December 1994)***Teaching Assistant*

Department of Civil and Environmental Engineering

Madison, Wisconsin, USA

University of Wisconsin-Madison (January 1992~July 1995)*Research Assistant*

Department of Civil and Environmental Engineering

Madison, Wisconsin, USA

OTHER PROFESSIONAL POSITION

Korean Professional Engineers Association

Seoul, Republic of Korea

*Director of Construction Management Education***Habitat for Humanity**

Seoul, Republic of Korea
Director of Training and Education

AWARD RECEIVED

Best Paper Award

Title: "A Framework for Activity-Based Construction Management Simulation"
The 3rd International Conference on Construction Engineering and Management (ICCEM) - The
6th International Conference on Construction Project Management (ICCPM), Jeju, Korea, May
27~30, 2009

Research Excellence Award

Department of Construction Science, Texas A&M University, April 12, 2012.
"The COSC department and the CIAC recognize with the scholarly activities and research award
the faculty with an outstanding research agenda for the academic year".

Research Excellence Award

Department of Construction Science, Texas A&M University, April 12, 2011.
"The COSC department and the CIAC recognize with the scholarly activities and research award
the faculty with an outstanding research agenda for the academic year".

RECOGNITION RECEIVED

Plaque of Merit

In recognition of the dedication to the establishment of the Leadership Training Program for the
Association of Korea Reserve Officer's Training Corps (ROTC) at Texas A&M University,
February 21, 2020, awarded by the Association of Korea Reserve Officer's Training Corps
(ROTC)

Plaque of Merit

In recognition of the dedication to the establishment of the Leadership Training Program for the
Association of Korea Reserve Officer's Training Corps (ROTC) at Texas A&M University, June
1, 2019, awarded by the Association of Korea Reserve Officer's Training Corps (ROTC)

Plaque of Merit

In recognition of the dedication to the establishment of the Leadership Training Program for the
Association of Korea Reserve Officer's Training Corps (ROTC) at Texas A&M University, June
1, 2018, awarded by Korea Army Cadet Military School

Outstanding Leadership Award

In recognition of the dedication and leadership of KACEPM (Korean-America Construction
Engineering and Project Management Association). April 2, 2018

Certificate of Appreciation

Outstanding Achievement in 2018 Region V ASC/QUOIN Student Competition", Dallas, Texas.
"This certificate of appreciation was awarded to an individual who appeared in the Region V
student competition as a student team member or a faculty coach," awarded by ASC/TEXO

Certificate of Appreciation

Outstanding Achievement in 2013 Region V ASC/QUOIN Student Competition", Dallas, Texas.
"This certificate of appreciation was awarded to an individual who appeared in the Region V
student competition as a student team member or a faculty coach," awarded by ASC/TEXO

Certificate of Appreciation

Outstanding Achievement in 2012 Region V ASC/TEXO Student Competition", Dallas, Texas.

“This certificate of appreciation was awarded to an individual who appeared in the Region V student competition as a student team member or a faculty coach,” awarded by ASC/TEXO

Certificate of Appreciation

Outstanding Achievement in 2010 Region V ASC/TEXO Student Competition”, Dallas, Texas.

“This certificate of appreciation was awarded to an individual who appeared in the Region V student competition as a student team member or a faculty coach,” awarded by ASC/TEXO

Certificate of Appreciation

Outstanding Achievement in 2009 Region V ASC/QUOIN Student Competition”, Dallas, Texas.

“This certificate of appreciation was awarded to an individual who appeared in the Region V student competition as a student team member or a faculty coach,” awarded by ASC/TEXO

ACE Mentor

Career Directions for Students in Architecture, Construction Engineering, and Management, awarded by Turner Construction Co., May 29, 2007. “This recognition was given to an individual as an appreciation of participation and support for the ACE Mentor Program”

ACE Mentor

Career Directions for Students in Architecture, Construction Engineering, and management, awarded by Turner Construction Co., May 24, 2007. “This recognition was given to an individual as an appreciation of participation and support for the ACE Mentor program”

TEACHING

Courses Taught at Texas A&M University (August 2008~Present)

Academic Year 2023

- Spring, COSC 603 Construction Project Scheduling (Graduate), 2 Sections, 3 cr.
- Fall, COSC 602 Construction Cost Estimating, (Graduate), 2 sections, 3 cr.

Academic Year 2022

- Spring, COSC 603 Construction Project Scheduling (Graduate), 3 cr.
- Spring, COSC 691 Research (Graduate), 1~23 cr.
- Summer, COSC 685 Directed Studies (Graduate), 1~6 cr.
- Summer, COSC 691 Research (Graduate), 1~23 cr.
- Fall, COSC 602 Construction Cost Estimating, (Graduate), 2 sections, 3 cr.
- Fall, COSC 691 Research (Graduate), 3 cr.

Academic Year 2021

- Spring, COSC 603 Construction Project Scheduling (Graduate), 3 cr.
- Spring, ARCH 691 Research (Graduate), 1~23 cr.
- Summer, ARCH 691 Research (Graduate), 1~23 cr.
- Fall, COSC 691 Research (Graduate), 3 cr.

Academic Year 2020

- Spring, COSC 175 Construction Graphics (Undergraduate), 3 cr.
- Spring, COSC 685 Directed Studies (Graduate), 3 cr.
- Fall, COSC 175 Construction Graphics, 2 sections (Undergraduate), 3 cr.
- Fall, COSC 602 Construction Cost Estimating, (Graduate), 3 cr.
- Fall, ARCH 691 Directed Studies, (Graduate), 1~23 cr.

Academic Year 2019

- Spring, COSC 685 Directed Studies (Graduate), 1~6 cr.
- Fall, COSC 321 Structural Systems I (Undergraduate), 3 cr.
- Fall, COSC 603 Construction Scheduling, (Graduate), 3cr.

Academic Year 2018

- Spring, COSC 685 Directed Studies (Graduate), 1~6 cr.
- Fall, COSC 421 Soils & Structural Analysis (Undergraduate), 3 cr.
- Fall, COSC 603 Construction Scheduling, (Graduate), 3cr.

Academic Year 2017

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 622 Construction Economics (Graduate), 3 cr.

Academic Year 2016

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.

Academic Year 2015

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Spring, COSC 443 Industrial Capstone (Undergraduate), 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.

Academic Year 2014

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Spring, COSC 443 Industrial Capstone (Undergraduate), 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 459 Introduction to Industrial Construction (Undergraduate), 3 cr.

Academic Year 2013

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Spring, COSC 489 Introduction to Demolition (Undergraduate), 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.

Academic Year 2012

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Summer, COSC 621 Advanced Topics in Construction Project Scheduling and Project Management (Graduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.

Academic Year 2011

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3cr.
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Academic Year 2010

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Spring, COSC 621 Advanced Topics in Construction Project Scheduling and Project Management (Graduate), 3 cr.
- Summer, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Fall, COSC 650 Introduction to Construction Visualization (Graduate), 3 cr.

Academic Year 2009

- Spring, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Summer 1, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Summer 2, COSC 475 Construction Project Planning (Undergraduate), 3 cr.
- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.
- Fall, COSC 621 Advanced Topics in Construction Project Scheduling and Project Management (Graduate), 3 cr.
- Fall, COSC 621 Research, 3 cr.

Academic Year 2008

- Fall, COSC 475 Construction Project Planning (Undergraduate), 4 sections, 3 cr.

Courses Taught at Florida International University (September 2004~August 2008)Academic Year 2008

- Spring, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Spring, BCN 5784 Construction Information Systems (Graduate), 3 cr.
- Summer, BCN 4612 Construction Estimating (Undergraduate), 3 cr.
- Summer, BCN 3240 Construction Equipment (Undergraduate), 3 cr.

Academic Year 2007

- Spring, BCN 4612 Construction Estimating (Undergraduate), 3 cr.
- Spring, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Summer, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Summer, BCN 4612 Construction Estimating (Undergraduate), 3 cr.
- Summer, BCN 5784 Construction Information Systems (Graduate), 3 cr.
- Fall, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Fall, BCN 4703 Management of Construction Projects (Undergraduate), 3 cr.

Academic Year 2006

- Spring, BCN 4703 Management of Construction Projects (Undergraduate), 3 cr.
- Spring, BCN 5784 Construction Information Systems (Graduate), 3 cr.
- Summer, BCN 4612 Construction Estimating (Undergraduate), 3 cr.
- Summer, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Fall, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Fall, BCN 4703 Management of Construction Projects (Undergraduate), 3 cr.
- Fall, BCN 5784 Construction Information Systems (Graduate), 3 cr.

Academic Year 2005

- Spring, BCN 4612 Construction Estimating (Undergraduate), 3 cr.
 - Spring, BCN 5716 Productivity in Construction (Graduate), 3 cr.
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- Fall, BCN 3240 Construction Equipment (Undergraduate), 3 cr.
- Fall, BCN 5784 Construction Information Systems (Graduate), 3 cr.

Academic Year 2004

- Fall, BCN 3240 Construction Equipment (Undergraduate), 3 cr.

Additional teaching experiences at various institutions:

Courses Taught at Sejong University (March 2001~February 2002)

- Introduction to Construction Management (Undergraduate), 3 cr.
- Construction Materials and Methods (Undergraduate), 3 cr.

Courses Taught at Chung-Ang University (September 1999~February 2000, March 2001~February 2002)

- E-Business in Construction (Graduate), 3 cr.
- Information Technology in Construction (Graduate), 3 cr.
- System Integration and Construction Enterprise Management (Graduate), 3 cr.
- Construction Management Seminar (Graduate), 3 cr.

Courses Taught at Hanyang University (September 1997~January 2001)

- Construction Management and Project Management (Graduate), 3 cr.
- E-Business in Construction (Graduate), 3 cr.
- Human Resource Management (Graduate), 3 cr.
- Introduction to Construction Management (Undergraduate), 3 cr.
- Engineering Economy (Undergraduate), 3 cr.
- Construction Materials and Methods (Undergraduate), 3 cr.

Courses Taught at Yonsei University (September 1996~August 1998)

- Construction Management and Project Management (Graduate)
- Information Technology in Construction (Graduate)
- Introduction to Construction Management (Undergraduate)

PUBLICATIONS

PAPERS IN REFEREED JOURNALS

1. *“Critical Thinking Skills of Generation Z in Construction Education Classroom I: Process/Data-Oriented Reasoning and Judgement,”* **Boong Yeol Ryoo**, Mi Sun An, Journal of Civil Engineering Education, (under review)
 2. *“Critical Thinking Skills of Generation Z in Construction Education Classroom II: Repetitive Reasoning and Judgement (II),”* **Boong Yeol Ryoo**, Mi Sun An, Journal of Civil Engineering Education, (under review)
 3. *“Digital Twin Research Trends and Directions Studies through Literature Review in Construction Management Using a Data Mining Technique (Association Rule Mining),”* **Boong Yeol Ryoo**, Mi Sun An, Journal of Civil Engineering Education (under review)
 4. *“Predicting construction workforce demand using a combination of feature selection and multivariate deep learning seq2seq models,”* Milad Ashtab, **Boong Yeol Ryoo**, Journal of Construction Engineering and Management (Accepted on July 28, 2022, Ms. No. COENG-12095R2)
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5. "A Case Study for Integration of Teaching and Research in an Engineering Technology Program", *Journal of Engineering Technology*, Wei Zhan, Byul Hur, and Boong Yeol Ryoo, Vol. 39, No.1, pp 30-40, Spring 2022.
 6. "Progress in Autonomous Building Inspection Drone Development for Scanning Exterior Damage of Buildings," Hur, Byul, **Ryoo, Boong Yeol**, Zhan, Wei, Bustos, Carmelo, Consuelo, Gabriel, et al., *Journal of Management & Engineering Integration*; Turlock Vol. 13, No. 2, pp. 23-33, Winter 2020.
 7. "Current Status and Future Opportunities for Big Data Research in the Construction Industry," Donghoon Lee, Kyeong-Tae Jeong, **Boong Yeol Ryoo**, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN:2278-3075, Vol. 8, No. 8S2, June 2019.
 8. "Environmental, Economic, and Social Implications of Highway Concrete Rehabilitation Alternatives," Kunhee Choi, Hyun Woo Lee, Zhuting Mao, Sarel Lavy, and **Boong Yeol Ryoo**, *Journal of Construction and Engineering Management*, vol. 142, no. 2 (DOI: 10.1061/(ASCE)CO.1943-7862.0001063, 04015079, February 2016.
 9. "Major Accident Factors by Six Work Types for Effective Safety Management of Highway Construction Projects", Young Ai Kim, **Boong Yeol Ryoo**, Yong-Su Kim, and Woon Chan Huh, *Journal of Construction Engineering and Management*, vol. 139, no. 6, DOI: 10.1061/(ASCE)CO.1943-7862.0000640, pp. 628-640, June 2013.
 10. "Building Construction: A Deterministic Nonperiodic Flow: A Case Study of Chaos Theories in Tracking Production Flow", José L. Fernández-Solís, Xiaoshu Lü, and **Boong Yeol Ryoo**, *Architectural Engineering and Design Management*, vol. 9, no. 1, pp. 21-48, May 16, 2012.
 11. "Development of Multi-Residential Buildings with Green Frames. Part II: Reduction capabilities of CO2 emission", Won-Kee Hong, Seon-Chee Park, Jin-Min Kim, Seung-Il Kim, Seung-Geun Lee, Dai-young Yune and Tae-Ho Yoon, **Boong Yeol Ryoo**, *Indoor and Built Environment*, vol. 19, pp. 151-162, February 2010.
 12. "Web-based Construction Project Specification System," **Boong Yeol Ryoo**, Miroslaw J. Skibniewski, Young Hoon Kwak, *Journal of Computing in Civil Engineering*, vol. 24, no. 2, pp. 212-221, March/April 2010.
 13. "e-Portal for Construction Engineers: Integrated Construction Information Portal using 4-Tier Architecture", **Boong Yeol Ryoo** and Miroslaw J. Skibniewski, *The International Journal of Construction Management*, vol. 7, no. 1, pp. 83-99, 2007.
 14. "Design of B2B e-Work Solution for the Supply Chain of Construction Reinforcement Steel," Daniel Castro-Lacouture, Polliphat Nitithamyong, **Boong Yeol Ryoo**, and Miroslaw J. Skibniewski, *IT-CON Electronic Journal of Information Technology in Construction*, ISSN 1400-6529, Special Issue on E-Business and E-Work, 2004.
 15. "A Study on Proposal to Improve Domestic Construction Management Service Guide," Korean Institute of Architectural Construction, Kwang-Tae Na, **Boong Yeol Ryoo**, and Byung-Hee Kang, vol. 2, no. 3, pp. 147-154, August 2002. https://doi.org/10.5659/JAIK_SC.2014.30.10.69.
 16. "Knowledge Extraction of Highway Retaining Structure Selection: Characteristics of Knowledge Database," Architectural Institute of Korea, Chang-Young Song, **Boong Yeol Ryoo**, and Soo-Gon Lee, vol. 4, no. 1, December 2002.
 17. "Development and Management of an Information Exchange System for the Construction Project Specifications," Kyooun-Tai Kim, Tae-Song Kim, **Boong Yeol Ryoo**, and Jai-Dong Koo, *Architectural Institute of Korea (Structure)*, v. 18 n. 7, July 2002.
 18. "Development of Internet Portal Site for Construction Engineers," **Boong Yeol Ryoo**, *Journal of Project Management and Technology*, Korean Institute of Project Management & Technology,
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- vol. 6, pp. 11-18, April 2002.
19. "A Study on Work Scope of Construction Management in Turnkey Projects," Architectural Institute of Korea, Kwang-Tae Na, **Boong Yeol Ryoo**, and Byung-Hee Kang, vol. 18, no. 3, pp. 115-123, March 2002.
 20. "A Study on the Development of Earned Value Management System Model Based on Activity-Based Management to Construction Projects," Architectural Institute of Korea, Chang-Young Song, **Boong Yeol Ryoo**, and Soo-Gon Lee, v. 18, n. 1, pp. 87-94, January 2002.
 21. "A Proposal to Compile a Practice Guide by Construction Phases for CM Service Projects," Architectural Institute of Korea, Kwang-Tae Na and **Boong Yeol Ryoo**, vol. 17, no. 3, pp. 67-74, March 2001.
 22. "A Study on the Development of a Project Management Information System for Construction Management," Architectural Institute of Korea, Kyu-Hyun Nam and **Boong Yeol Ryoo**, vol. 17, no. 2, pp. 149-156, December 2001.
 23. "Retaining Wall Selection Using Fuzzy Sets," **Boong Yeol Ryoo** and Tae-Sik Lee, Journal of Project Management & Technology, Korean Institute of Project Management and Technology, vol. 1, pp. 38-46, October 2000.
 24. "A Study on Risk Analysis and Professional Liability of Design Engineers' Responsibility," Tae-Sik Lee, **Boong Yeol Ryoo**, and Yong-Il Lee, Korean Society of Civil Engineers, vol. 19, no. 101, pp. 133-148, January 1999.
 25. "Fuzzy Navigation System for Mobile Construction Robots," Seungho Lee, Teresa M. Adams, and **Boong Yeol Ryoo**, Automation and Robotics in Construction, pp. 97-107, Elsevier, June 1997.

SYMPOSIUM AND CONFERENCE PAPERS

1. "Utilizing Artificial Intelligence for Personalized Career Development," **Boong Yeol Ryoo**, UKC 2016 US-Korea Conference on Science, Technology, and Entrepreneurship, Dallas, TX, August 2-5, 2023.
 2. "Critical Thinking (Reasoning) Skills in Engineering Classroom," Mi Sun An and **Boong Yeol Ryoo**, Texas Conference on Student Success, October 19-21, 2022, College Station, TX, USA.
 3. "Critical Thinking (Reasoning) Skills in Engineering Classroom," Mi Sun An and **Boong Yeol Ryoo**, Texas Conference on Student Success, October 19-21, 2022, College Station, TX, USA.
 4. "Integration of Capstone projects of quad-copper and underwater robot for building structural analysis," Whi Zha, Byul Hur, and **Boong Yeol Ryoo**, 2022 ASEE (American Society for Engineering Education) Annual Conference & Exposition, Minneapolis, Minnesota, June 26-29, 2022.
 5. "Knowledge acquisition from previous extreme events for more dynamic response plan using NLP and unsupervised learning," **Boong Yeol Ryoo**, and Milad Ashtab," 2021 i3CE 20201 Computing in Civil Engineering, Orlando, FL, September 12-14, 2021.
 6. "Improving Visualization Capability in Construction Education (Plan reading)," **Boong Yeol Ryoo** and Mi Sun An, 57th Annual Associated Schools of Construction International Conference, pp. 469-477, April 5-8, 2021, Chico, California, USA.
 7. "Predictive Capabilities of Supervised Learning Models Compare with Time Series Models in Forecasting Construction Hiring," **Boong Yeol Ryoo** and Milad Ashtab, ASC 57th Annual Conference, Virtual, pp 117-126, April 5-8, 2021, Chico, USA.
 8. "Determining The Significance of Extreme Events in Texas Construction Market Through Outlier Detection of Texas Construction Hiring Data," Milad Ashtab and **Boong Yeol Ryoo**, 19th International Conference e-Society (IADIS ES 2021), Virtual, pp 264-268. March 3-5, 2021.
 9. "A Control Systems Course Project Serving as a Bridge to A Capstone Course and Research Projects," Wei Zhan, Byul Hur, and **Boong Yeol Ryoo**, 2020 ASEE (American Society for
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- Engineering Education) Annual Conference & Exposition, June 22-20, 2020 (Virtual due to Covid).
10. *"Integrated 3D Point Cloud for Emergency First Responders"*, **Boong Yeol Ryoo**, Patrick Suermann, and Julian Kang, CIB World Building Congress 2019: Constructing Smart cities, Hong Kong, China, June 18-21, 2019.
 11. *"Assessment of an experimental five-day graduate student construction science "boot camp" at a research-intensive university: A case study,"* Zofia Rybkowski, Shannon Degenhart, Boong Yeol Ryoo, 55th ASC International Conference, Denver, Colorado, USA, April 10-13, 2019.
 12. *"Current Status and Future Opportunities for Big Data Research in the Construction Industry"*, Donghoon Lee, Ki-Hyuk Kim, and **Boong Yeol Ryoo**, International Conference on Next-Generation Convergence Technology (ICNCT 2019), Okinawa, Japan, January 12-14, 2019.
 13. *"Evidence-Based Teaching for Personalized Learning"*, **Boong Yeol Ryoo**, Shannon H Degenhart, and Gary Boldt, "2018 Transformational Teaching & Learning Conference, Texas A&M University, College Station, TX, April 17-18, 2018.
 14. *"Evidence-Based Teaching for Personalized Learning,"* **Boong Yeol Ryoo**, Shannon H Degenhart, and Gary Bolts, e-Society 16th IADIS (International Association for Development of the Information Society) International Conference (ES 2018), Lisbon, Portugal, April 14-16, 2018.
 15. *"Transformative Framework for Smart Operations and Management,"* **Boong Yeol Ryoo**, UKC 2016 US-Korea Conference on Science, Technology, and Entrepreneurship, Queens, NY, August 1-4, 2018.
 16. *"Creating OWL-Language Knowledge Map Using Text Mining,"* Tao Song, **Boong Yeol Ryoo**, and Sarel Lavy, UKC 2018 US-Korea Conference on Science, Technology and Entrepreneurship, Queens, NY, August 1-4, 2018.
 17. *"Transformative Framework for Smart Operations and Management,"* **Boong Yeol Ryoo**, UKC 2018 US-Korea Conference on Science, Technology, and Entrepreneurship, Queens, NY, August 1-4, 2018.
 18. *"Heuristic Approach to Find the Optimum Scheduling using CLIPS,"* **Boong Yeol Ryoo**, Keunhee Choi, and Donghoon Lee, UKC 2016 US-Korea Conference on Science, Technology and Entrepreneurship, Dallas, TX, August 10-13, 2016.
 19. *"Highway Route Planning Based On Topographic Data, Using Pathfinding Algorithm And Image Processing Tools,"* Vihita Pedaballe and **Boong Yeol Ryoo**, UKC 2016 US-Korea Conference on Science, Technology and Entrepreneurship, Dallas, TX, August 10-13, 2016.
 20. *"State-of-Practice in Big Data Informatics,"* Donghoon Lee, **Boong Yeol Ryoo**, and Keunhee Choi, UKC 2016 US-Korea Conference on Science, Technology and Entrepreneurship, Dallas, TX, August 10-13, 2016.
 21. *"Schedule Impacts of Change Order Occurrence Timing in Design-Build Transportation Improvement Projects,"* Kyeong Rok Ryu, Keunhee Choi, Junseo Bae, and **Boong Yeol Ryoo**, UKC 2016 US-Korea Conference on Science, Technology and Entrepreneurship, Dallas, TX, August 10-13, 2016.
 22. *"Architecture for Integrated Real-Time Health Monitoring Using Wireless/Mobile Devices,"* **Boong Yeol Ryoo** and Keunhee Choi, The 6th International Conference on Construction Engineering and Project Management (ICCEPM 2015), Busan, South Korea, October 11-14, 2015.
 23. *"Design-Build Change Order Impacts in Highway Projects,"* Kyung Rok Ryu, Keunhee Choi, **Boong Yeol Ryoo**, and Julian Kang, The 6th International Conference on Construction
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- Engineering and Project Management (ICCEPM 2015), pp. 371-375, Busan, South Korea, October 11-14, 2015.
24. “*Integrating Project Management with IT for Corporate Portfolio Management Solutions*,” **Boong Yeol Ryoo** and Keunhee Choi, UKC 2013, East Rutherford, NJ, August 7-11, 2013.
 25. “*Cluster-Driven Life-Cycle Cost Analysis Model for Transportation Infrastructure Improvement Projects*,” Keunhee Choi, **Boong Yeol Ryoo**, and Young Hoon Kwak, UKC 2013, East Rutherford, NJ, August 7-11, 2013.
 26. “*Framework for Health Surveillance and Safety Monitoring on Construction Sites Using Bio harness Sensors*,” **Boong Yeol Ryoo** and Hyun Chul Chung, *US-Korea Conference on Science, Technology, and Entrepreneurship*, August 8-12, 2012, Anaheim, California, U.S.A.
 27. “*Fuzzy Control for Multiple Traveling Robots to Avoid Collisions in Construction*,” **Boong Yeol Ryoo**, Hyun Chul Chung, and Mike Duff, *US-Korea Conference on Science, Technology, and Entrepreneurship*, August 8-12, 2012, Anaheim, California, U.S.A.
 28. “*Information Strategy Planning for Long-Term Informatization in Construction*,” **Boong Yeol Ryoo** and Julian Kang, *Third International Conference on Construction in Developing Countries (ICCIDC-III)*, Bangkok, Thailand, July 4-6, 2012.
 29. “*Impact of CM Procedure Manuals in Construction Project Management*,” **Boong Yeol Ryoo** and Julian Kang, *Third International Conference on Construction in Developing Countries (ICCIDC-III)*, Bangkok, Thailand, July 4-6, 2012.
 30. “*Application of Personal Learning Environment to Teaching BIM for Construction*,” Julian Kang and Boong Yeol Ryoo, 48th ASC Annual International Conference, Birmingham, UK, April 11-14, 2012.
 31. “*Five Challenges You Need to Know for Successful BIM Application in Developing Countries*,” Julian Kang, **Boong Yeol Ryoo**, and Vahid Faghihi, *Third International Conference on Construction in Developing Countries (ICCIDC-III)*, Bangkok, Thailand, July 4-6, 2012.
 32. “*System and Plan on Disaster Management Policy in the United States*,” **Boong Yeol Ryoo**, Keynote speaker, *The 1st International Conference on Disaster Management*, June 15, 2012, Seoul, Korea.
 33. “*Bridging the Gap Between The Classroom and the Construction Industry on Scheduling Practices*,” **Boong Yeol Ryoo**, Mike T. Duff, and Mohammed E. Haque, *2012 American Society for Engineering Education (ASEE) Gulf Southwest Regional Conference*, El Paso, Texas, U.S.A., April 4-6, 2012.
 34. “*Understanding the Occurrence of Two Total Floats on One Activity and Schedule Crashing Approaches for That Situation*,” **Boong Yeol Ryoo**, Mike T. Duff, and Mohammed E. Haque, *2012 American Society for Engineering Education (ASEE) Gulf Southwest Regional Conference*, El Paso, Texas, U.S.A., April 4-6, 2012.
 35. “*Wireless/Mobile Sensors for Monitoring Worker’s Health and Safety in Construction*,” **Boong Yeol Ryoo** and Hyun Chul Chung, 28th International Symposium on Automation and Robotics in Construction (ISARC), pp572-573, Seoul, Korea, June 29-July 2, 2011.
 36. “*Enhanced Platform for Building Information Modeling to Improve Reality*,” **Boong Yeol Ryoo**, and Hyung Keun Park, 28th International Symposium on Automation and Robotics in Construction (ISARC), pp136-137, Seoul, Korea, June 29-July 2, 2011.
 37. “*Information Strategy Planning in Construction: Framework and Process*,” **Boong Yeol Ryoo**, Soo Yong Kim, and Young Dai Lee, 26th International Symposium on Automation and Robotics in Construction (ISARC), pp 584-590, Austin, Texas, U.S.A. June 24-27, 2009
 38. “*A Framework for Activity-Based Construction Management Simulation*,” **Boong Yeol Ryoo**,
-

The 3rd International Conference on Construction Engineering and Management/The 6th International Conference on Construction Project Management, Jeju, Korea, May 27-30, 2009. (Excellent Paper Award)

With previous Institutions

39. “*An Overview of Enterprise Resource Planning (ERP) Systems in Small and Medium-Sized Organizations: Case of Florida Contractors*,” S. Umut Artuk, **Boong Yeol Ryoo**, and Ronald Baier, Fourth International Conference on Construction in the 21st Century (CITC-IV) “Accelerating Innovation in Engineering, Management and Technology,” Gold Coast, Australia, July 11-13, 2007.
 40. “*Framework of Construction Management Task Map for “Integrated Project Management Systems*,” **Boong Yeol Ryoo**, and Ronald A. Baier, Third International Conference on Construction in the 21st Century (CITC-III) “Advancing Engineering, Management, and Technology,” Athens, Greece, 15-17, September 2005.
 41. “*System Architecture for Integration of Construction e-Business Solutions: A Model for Enterprise Resource Planning and Project Management System*,” **Boong Yeol Ryoo**, Irtishad U. Ahmad, and Juan Zheng, 1st International Conference on Construction Engineering and Management (ICCEM 2005), Seoul, Korea, October 16~19, 2005.
 42. “*Framework of Construction Management Task Map for Integrated Project Management Systems*,” **Boong Yeol Ryoo** and Ronald A. Baier, Third International Conference on Construction in the 21st Century (CITC-III) “Advancing Engineering, Management, and Technology,” Athens, Greece, 15-17, September 2005.
 43. “*ERP Adoption Model for the Construction Industry*”, M. Omer Tatari, **Boong Yeol Ryoo** and Miroslaw J. Skibniewski, European Conference on Product and Process Modeling in the Building and Construction Industry (ECPPM – 2004), Istanbul, Turkey, September 8-10, 2004.
 44. “*Electronic Project Management Information Systems (e-PMIS) for Construction Projects in Developing Countries*,” **Boong Yeol Ryoo**, Pollaphat Nitithamyong, Miroslaw J. Skibniewski, Proceedings, CIB-W107 and TG23 Joint International Symposium on Globalization and Construction (CD-ROM), ISBN 974-8208-56-7, CIB and AIT, Bangkok, Thailand, November 17-19, 2004.
 45. “*e-Portal For Construction Engineering Managers: Framework and 4-Tier Architecture*,” **Boong Yeol Ryoo** and Miroslaw J. Skibniewski, 20th International Symposium on Automation and Robotics in Construction, Technische Universiteit Eindhoven, The Netherlands, September 21-24, 2003.
 46. “*e-Portal for Construction Engineers Using 4-Tier Architecture*,” **Boong Yeol Ryoo** and Yong-Hee Lee, Decision Making in Urban and Civil Engineering, The 3rd International Conference, pp. 1122-1127, London, UK, November 6-8, 2002.
 47. “*Suggestions on activation of e-commerce in construction*,” **Boong Yeol Ryoo**, 2001 Symposium on Construction Information Technology: Vision of Information Technology in Construction in 21st Century, November 11, 2001, Seoul, Korea.
 48. “*Enhancement of e-business in construction*,” **Boong Yeol Ryoo**, Symposium on IT in Construction 2001, pp. 76–87, November 11, 2001, Seoul, Korea.
 49. “*Selection of Highway Retaining Structures Using Analytic Hierarchy Method*,” **Boong Yeol Ryoo** and Tae-Sik Lee, 10th Symposium and Seminar of Korean Institute of Project Management and Technology, pp. 351-373, Seoul, Korea, November 2-3, 2000.
 50. “*A Study on Education Model for Senior Construction Managers*,” Tae-Sik Lee, Jin-Wook Lee, Soon-Byung Lee, and **Boong Yeol Ryoo**, 2000 Annual Conference of Korean Society of Civil
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Engineers, Korean Society of Civil Engineers, October 28, 2000.

51. "Implementation Model of Knowledge Management System for Construction Companies," Tae-Sik Lee, **Boong Yeol Ryoo**, and Dong-Wook Lee, 2000 Annual Conference of Korean Society of Civil Engineers, Korean Society of Civil Engineers, October 28, 2000.
52. "A Development of Steel Box Bridge Design System," Byung-Mok Jung, Zu-Og An, and **Boong Yeol Ryoo**, First International Conference on New Information Technologies for Decision Making in Civil Engineering, pp. 1365-1372, Montreal, Canada, October 11-13, 1998.
53. "A Development of Integrated Project Management Information System for SOC Project Owners," **Boong Yeol Ryoo**, 7th Symposium and Seminar of Korean Institute of Project Management and Technology, pp. 65-72, Seoul, Korea, October 30, 1997.
54. "Multi-Attribute Decision Method for Retaining Structure Selection Using Fuzzy Logic," **Boong Yeol Ryoo** and Teresa M. Adams, The Seventh International Conference on Computing in Civil and Building Engineering (ICCCBE-VII), pp. 1383-1388, Seoul, Korea, August 19-21, 1997.
55. "Web-based Project Management System Regarding Information and Knowledge Management," **Boong Yeol Ryoo**, 6th Symposium and Seminar of Korean Institute of Project Management and Technology, pp. 49-60, Seoul, Korea, December 3, 1996.
56. "Guideline and Portfolio of Construction Project Management Systems for Construction Managers: CALS/EC Standards in Construction," **Boong Yeol Ryoo**, 6th Symposium and Seminar of Korean Institute of Project Management and Technology, pp. 101-112, Seoul, Korea, December 3, 1996.
57. "Construction Management: An Emerging Role in Korean Construction Industry," **Boong Yeol Ryoo** and Tai-Sik Lee, ASCE Construction Congress V: American Society of Civil Engineers, pp. 1064-1069, Minneapolis, Minnesota, USA, October 6-9, 1997.
58. "Knowledge-Based Decision Support System (KBDSS) for Retaining Wall Selection," **Boong Yeol Ryoo** and Sang Chan Park, INFORMS Conference on Information Systems and Technology. Washington DC, USA, May 5-8, 1996.
59. "Fuzzy Navigation in an Unknown Environment," Seungho Lee, **Boong Yeol Ryoo**, and Teresa M. Adams, Proceeding of the Second Congress held in conjunction with A/E/C System '95, Computing in Civil Engineering, American Society of Civil Engineers, pp. 719-726, v. 1, Atlanta, Georgia, USA, June 5-8, 1995.

BOOKS OR BOOK CHAPTERS

1. "Construction Planning & Scheduling for Today's Modern Construction Projects," **Boong Yeol Ryoo** and Larry McGinn, Great River Learning, ISBN: 9781644968734, January 2022.
2. "Standard Construction Project Management Procedure Manual," KeeMoonDang Publishing Co., **Boong Yeol Ryoo**, Myung-Sup Shim, Po-Yong Chung, Heung-Jin Chang, Seo-Yoon Yang, and Young-Whan Park, June 2003.
3. "Construction Materials and Lab," KiMoonDang Publishing Co., Whan-Seok Yeum, **Boong Yeol Ryoo**, and Chang-Young Song, ISBN: 89-7086-443-1, March 2002.
4. "The Design and Construction Specification for Subway (National Standard Specification)," **Boong Yeol Ryoo** and Ministry of Construction and Transportation, Korean Society of Civil Engineers (editor), February 1998.

ARTICLES

1. "Leadership Training at Texas A&M University through ROTC Corps Program," January 2022, Korea Reserve Officer Training Corps Magazine.

2. "ROTC Program at Texas A&M University and Social Impacts," April 2021, Korea Reserve Officer Training Corps Magazine.
3. "Nurturing the Construction Management Market in Korea," **Boong Yeol Ryoo**, Korean Institute of Construction Engineering and Management, pp 51~53, March 2009, Korea

PROFESSIONAL MEMBERSHIPS

1. Design-Build Institute of America (DBIA) (2008~Present)
2. America Society of Civil Engineers (ASCE) (2006~Present)
3. Korean Society of Geodesy, Photogrammetry, and Cartography (1983~Present)
4. Korean Society of Civil Engineers (1995~Present)
5. Architectural Institute of Korea (2000~Present)
6. Korean Institute of Construction Engineering and Management (1995~Present)

EDITORIAL APPOINTMENTS

1. **Journal of Construction Engineering and Project Management (2010~Present)**
Associate Editor
2. **Journal of Building Construction and Planning Research (2013~Present)**
Editorial Board Member
3. **Automation in Construction (2002~Present)**
Editorial Board Member
4. **Korean Society of Civil Engineers (July 1997-June 1998)**
Journal Publication Division
Editorial Member

PROFESSIONAL APPOINTMENTS/ NATIONAL LEADERSHIP POSITION

1. **Korea Reserve Officer Training Corps (2021~present)**
Seoul, Korea
Editorial Member
 2. **Korea Reserve Officer Training Corps (2014~present)**
Seoul, Korea
Liaison Officer
 3. **RFID in Construction Consortium (2009~Present)**
Vice President for Education
 4. **Korean Institute of Construction Engineering and Management (November 1999 - November 2001)**
Seoul, Korea
Board Member
 5. **Korea Professional Engineers Association (August 1998-2002)**
Center for Construction Management Education
Seoul, Korea
Director
 6. **Korea Society of Construction Engineering and Management (November 1997-October 1999)**
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Seoul, Korea

Board of Directors

7. **Journal of Construction Engineering and Project Management (2010~Present)**
Associate Editor/Reviewer

COMMITTEE PARTICIPATION

1. **22nd International Conference e-Society (ES 2024) March 9-11, 2024)**
Lisbon, Portugal
International Committee
 2. **21st International Conference e-Society (ES 2023) March 11-13, 2023)**
Lisbon, Portugal
International Committee
 3. **2022 IEEE The 5th International Conference on Computer and Communication Engineering Technology (CCET) (August 19-21, 2022)**
Beijing, China
Technical Committee
 4. **19th International Conference e-Society (ES 2021) Virtual (March 3-5, 2021)**
Lisbon, Portugal
International Committee
 5. **2021 International Joint Conference on Information and Communication Engineering (JCICE 2021) (February 19-21, 2021)**
Chiang Mai, Thailand
Technical Committee
 6. **18th International Conference e-Society (ES 2020) (April 2-4, 2020)**
Sofia, Bulgaria
International Committee
 7. **2020 International Joint Conference on Information and Communication Engineering (JCICE 2020) (February 17-19, 2020)**
Sydney, Australia
Technical Committee
 8. **ICEIS 2019 21st International Conference on Enterprise Information Systems (May 3-5, 2019)**
Heraklion, Crete, Greece
Program Committee
 9. **E-Society 16th IADIS (International Association for Development of the Information Society) International Conference (April 14~16, 2018)**
Lisbon, Portugal
International Committee
 10. **17th International Conference e-Society (ES 2019) (April 11-13, 2019)**
Utrecht, The Netherlands
International Committee
 11. **20th International Conference on Enterprise Information Systems (ICEIS 2018) (March 21-24, 2018)**
Funchal Madeira, Portugal
Program Committee
 12. **2018 International Joint Conference on Information and Communication Engineering (JCICE 2018) (April 27-29, 2018)**
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Shanghai, China

Technical Committee

13. **KICEPM (Korean Institute of Construction Engineering and Project Management) (June 2016~2017)**
President of Overseas Operation
 14. **E-Society 14th IADIS (International Association for Development of the Information Society) International Conference (April 9~11, 2016)**
Vilamoura, Algarve, Portugal
International Committee
 15. **E-Society 13th IADIS (International Association for Development of the Information Society) International Conference (March 14~16, 2015)**
Madeira, Portugal
International Committee
 16. **E-Society 12th IADIS (International Association for Development of the Information Society) International Conference (February 28~March 2, 2014)**
Madrid, Spain
International Committee
 17. **E-Society 11th IADIS (International Association for Development of the Information Society) International Conference (March 13~16, 2013)**
Lisbon, Portugal
International Committee
 18. **E-Society 10th IADIS (International Association for Development of the Information Society) International Conference (March 10~13, 2012)**
Berlin, Germany
International Committee
 19. **ISARC 2011 The 28th International Symposium on Automation and Robotics in Construction (June 29~July 2, 2011)**
Seoul, Korea
International Advisory/Scientific Committee
 20. **E-Society 9th IADIS (International Association for Development of the Information Society) International Conference (March 10~13, 2011)**
Avila, Spain
Program Committee
 21. **The 4th International Conference on Construction Engineering and Project Management (ICCEPM) (February 16~18, 2011)**
Sydney, Australia
Technical Committee
 22. **Journal of Construction Engineering and Project Management (2010~Present)**
Associate Editor/Reviewer
 23. **ISARC 2011 The 28th International Symposium on Automation and Robotics in Construction (June 29-July 2, 2011)**
Seoul, Korea
International Advisory/Scientific Committee
 24. **CIB W78 2010 – 27th International Conference Applications of IT in the AEC Industry (November 16~18, 2010)**
Cairo, Egypt
International Science Committee
 25. **The 6th International Conference on Innovation in Architecture, Engineering, and Construction (AEC), (June 9-11, 2010)**
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State College, Pennsylvania

Conference Scientific Committee

26. **Korean Institute of Construction Engineering and Management (2010~Present)**
Seoul, Korea
International Science Committee/Co-Chair
27. **ASCE TCCIT (Technical Council for Computing and Information Technology) Database and Information Management (DIM) Committee (June 25, 2009~Present)**
Member
28. **E-Society IADIS (International Association for Development of the Information Society) International Conference (February 25~28, 2009)**
Barcelona, Spain
International Committee
29. **The 5th International Conference on Construction in the 21st Century (CITC-V) (May 20~22, 2009)**
Istanbul, Turkey
International Scientific Committee
30. **The 3rd International Conference on Construction Engineering and Management (ICCEM) & The 6th International Conference on Construction Project Management (ICCPM) (May 27~30, 2009)**
Jeju, Korea
International Scientific Committee/Session Chair
31. **First International Conference on Construction in Developing Countries – Advancing and Integrating Construction Education, Research, and Practice, ICCIDC-1 (August 4~5, 2008)**
Karachi, Pakistan
International Scientific Committee

With other institutions

32. **International Academy of e-Business (2002~Present)**
Editorial Board of Reviewers
 33. **Automation in Construction (2002~Present)**
Editorial Board
 34. **13th Rinker International Conference - 2006 ICCREM - International Conference on Construction and Real Estate Management (ICCEREM 2006) (October 5~6, 2006)**
Orlando, Florida, USA
Scientific Committee
 35. **E-Society IADIS (International Association for Development of the Information Society) International Conference (July 13~16, 2006)**
Dublin, Ireland
International Committee
 36. **ASCE Construction Research Council (2005~Present)**
Member
Construction Research Council
 37. **1st International Conference on Construction Engineering and Management (ICCEM 2005), (October 16~19, 2005)**
Seoul, Korea
International Program Committee and Session Chair
 38. **19th Annual Civil Engineering Professional Development Seminar, Purdue University, West Lafayette, Indiana, (November 4, 2004)**
West Lafayette, Indiana, USA
-

Seminar Leader

- 39. National Science Foundation and FIATECH (Fully Integrated and Automated TECHNOLOGY) - An Inter-Disciplinary Charrette: Setting an Academic Research Agenda for the FIATECH Capital Projects Technology Roadmap Initiative, (October 13~15, 2004)**

Huston, Texas, USA

Roadmap Review Committee

- 40. The 3rd International Conference on Decision Making in Urban and Civil Engineering (DMUCE) (November 6-8, 2002)**

London, United Kingdom

Scientific Committee/Symposium Leader

- 41. Habitat for Humanity in Korea (January 2000~Present)**

Seoul, Korea

Education Director

- 42. Korean Institute of Construction Engineering and Management (November 1999 ~ November 2001)**

Seoul, Korea

Board Member

- 43. International Conference on New Information Technologies for Decision Making in Civil Engineering, (October 11~13, 1998)**

Montreal, Canada

International Committee

- 44. Korea Professional Engineers Association (August 1998~Present)**

Center for Construction Management Education

Seoul, Korea

Director

- 45. Korea Society of Construction Engineering and Management (November 1997~October 1999)**

Seoul, Korea

Board of Directors

- 46. Seoul Metropolitan Subway Corporation (September 1997~Present)**

Construction Management Division

Advisory Board Member

- 47. Korean Society of Civil Engineers (July 1997~June 1998)**

Journal Publication Division

Editorial Member

- 48. Ministry of Construction and Transportation (August 1997~Present)**

Construction Information Technology Division

Advisory Board Member

- 49. The 6th Construction Information Technology Seminar and Exhibition Korea Information Processing Society (November 16, 1999)**

Seoul, Korea

Program Committee

- 50. International Conference on New Information Technologies for Decision Making in Civil Engineering, (October 11-13, 1998)**

Montreal, Canada

International Committee

- 51. Project Management Institute Korea Chapter (January 1996~Present)**

Seoul, Korea

Board Member of Public Affairs and Publication

52. University of Wisconsin-Madison (August 1994~August 1995)

Madison, Wisconsin, USA

President of the Korean Student Association

PROFESSIONAL REGISTRATIONS

Certified as CMP (Construction Management Professional) in Korea (1999)

Licensed as Civil Engineer in Korea (1986)

Licensed as Geodetic Survey Engineer in Korea (1982)

Licensed as Regional and Urban Planning Engineer in Korea (1982)

Licensed as Survey Engineer in Korea (1978)

INTELLECTUAL PROPERTY (REGISTERED SOFTWARE)

No.	Registration No.	Title	Remarks
1	2000-01-11-6228	i-PMIS	Web-based Project Management System
2	2000-01-12-9115	RETAIN V1.0	Retaining Wall Design Program
3	2000-01-12-9116	OOP-SIMULATOR V1.0	Object-Oriented Simulation Software
4	2000-01-12-9117	i-PMIS/EVMS	Web-based Project Management System and EVM Management System

NON-PROFESSIONAL REGISTRATIONS

Taekwondo Coach (a Korean martial Art) 5th Degree Black Belt.