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## **Name: He-Boong Kwon**

**Rank: Associate Professor**

**Tenure: Tenured**

**Primary Teaching Field(s): Production and Operations Management**

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**Education**

AACSB Endorsed Bridge to Business Program

University of Toledo (Post doc.) 2008

MBA with emphasis in Technology and Innovation

Pacific Lutheran University (39 credits) 2008

Ph. D. Electrical Engineering

Florida Institute of Technology 1995

MS. Electrical Engineering

Florida Institute of Technology 1992

BS Electrical Engineering

Korea Air Force Academy 1983

**Teaching**

**Associate Professor of Management (tenured)** 2014-present

Assistant Professor of Management 2012-2014

Hasan School of Business

Colorado State University-Pueblo

Courses teaching:

MGMT 511 Production and operations Management

MGMT 311 Operations and Quality Management

MGMT 491 Technology and Innovation Management

MGMT 362 Purchasing Management

BUSAD360 Advanced Statistics

BUSAD265 Inferential Statistics

**Scholarly Activities**

**Publications**

**Kwon, H**., Marvel, J., and Roh, J. (2017).Three-stage Performance Modeling Using DEA-BPNN for Better Practice Benchmarking, *Expert Systems with Applications.* 71, 429-441.

**Kwon, H**. (2017). Exploring the Predictive Potential of Artificial Neural Networks in conjunction with DEA in Railroad Performance Modeling, *International Journal of Production Economics*.183 (Part A), 159-170.

Lee, J. and **Kwon, H**. (2017). Progressive performance modeling for the strategic determinants of market value in high-tech oriented SMEs. *International Journal of Production Economics*. 183 (Part A), 91-102.

**Kwon, H**., Lee, J., and Roh, J. (2016).Best Performance Modeling Using Complementary DEA-ANN Approach: Application to Japanese Electronics Manufacturing Firms. *Benchmarking: An International Journal*. 23 (3), 704-721.

**Kwon, H.**, Roh, J., and Miceli, N. (2016). Better Practice Prediction Using Neural Networks: an Application to the Smartphone Industry, *Benchmarking: an International Journal*. 23 (3), 519-539.

**Kwon, H** and Lee, J. (2015). Two-stage Production Modeling of Large U.S. Banks: A DEA-neural network Approach, *Expert Systems with Applications*, 42 (19), 6758-6766.

**Kwon, H.** and Hong, P. (2015). Comparative Efficiency Assessment and Strategic Benchmarking of Smartphone Providers with Data Envelopment Analysis (DEA). *International Journal of Productivity and Quality Management*, 15 (2), 185-202.

**Kwon, H.** (2014). Performance Modeling of Mobile Phone Providers: A DEA-ANN Combined Approach, *Benchmarking: an International Journal*. 21 (6), 1120-1144.

Hong P. and **Kwon, H.** (2012). Emerging Issues of Procurement Management: a Review and Prospect, *International Journal of Procurement Management,* 5 (4), 452-469.

Joo, S., Min, H., and Kwon, I., **Kwon, H.** (2010). Comparative Efficiencies of Specialty Coffee Retailers from the Perspectives of Socially Responsible Global Sourcing, *International Journal of Logistics Managemen*t,21 (3), 490-509.

Hong P. and **Kwon, H.**, Roh, J. (2009). Implementation of Strategic Green Orientation in Supply Chain: An Empirical Study of Manufacturing Firms, *European Journal of Innovation Management.* 12 (4), 512-532.

**Kwon, H.**, Joo, S., and Stoeberl, P. (2008). Measuring Relative Efficiencies and Merger Impacts of Wireless Communication Companies, *Benchmarking: An International Journal:* 15 (3), 212-224.

**Papers under Review**

**Kwon, H**. and Lee, J. Neural Network Modeling for Two-stage Production Process with Versatile Variables: Predictive Analysis for Above-average Performance, *Decision Support Systems*.

Lee, J. and **Kwon, H**. Integrated Synergistic Effects of Environmental Greening, R&D Intensity, and Corporate Reputation on Firm Performance in the High-Tech Oriented Firms, *Decision Sciences*.

**Conference Proceedings and Presentations**

**Kwon, H**. (2017). Detecting Differential Impact of R&D on Market Value of Japanese SMEs: A Neural Network Approach. SWDSI2017 Conference, Little Rock, AR. March 2017.

**Kwon, H**. and Kim, C. (2017). Adaptive Bank Production Modeling and Setting Actionable Performance Outcomes: DEA-NN Approach. SWDSI2017 Conference, Little Rock, AR. March 2017.

**Kwon, H.** and Raymond, B. (2016). Are You Ready to Buy-Local? Survey Results. WDSI Conference (Proceedings), Las Vegas, NV. April, 2016.

**Kwon, H**. (2016). Adaptive Production Modeling and Setting Achievable Targets Using DEA-Neural Network: Application to the Healthcare Industry. SWDSI Conference, Oklahoma City, OK. March, 2016.

**Kwon, H.** (2016). Two-stage Operational Performance of Banks with Added Second Stage Inputs. SWDSI Conference, Oklahoma City, OK. March, 2016.

Lee, J. and **Kwon, H. (**2016**).** A Neural Network Approach to the Operational Strategic Determinants of Market Value in High-tech Oriented SMEs, ICIMSA2016 Conference (IEEE Proceedings), Jeju, Korea, May 2016.

**Kwon, H**. and Kim, C. (2015). Multiple Stage Production Modeling Using Neural Network: Application to Financial Institutions. Southwest DSI, Houston, TX. March, 2015.

**Kwon, H.**, Lee, J. and Roh, J. (2014). Best Performance Modeling Using DEA-ANN. Academic and Business Research Institute International Conference, Las Vegas, NV. Oct. 10, 2014. *Best Conference Paper Award*.

**Kwon, H.** (2013). Neural Network Based Performance Prediction and Modeling on Class I Railroad, Sixth Global Supply Chain Management Conference, Detroit, MI. Sept. 2013.

**Kwon, H.** (2013). Predicting Target Performance Using ANN and DEA: Application to Mobile Phone industry”, Southeast Decision Sciences Institute annual meeting, Charleston, SC. February 2013.

Joo, S. and **Kwon, H.** (2011). Measuring and Benchmarking the Comparative Performance of Major Railroad Companies in the USA, Western Decision Sciences Institute annual meeting, Portland, OR, April 2011.

Joo, S., **Kwon, H**. and Boggess, K. (2010). Measuring the Comparative Performance of Branches of a Regional Bank, Decision Sciences Institute annual meeting,San Diego, CA, November 2010.

**Kwon, H**., Hong, P., and Roh, J. (2009). Governance for Small and Medium Enterprises (SMEs): A Network Perspective, 7'h International Symposium on Supply Chain Management, Toronto, Canada, October 2009.

Hong, P., **Kwon, H**., Park, Y., and Lee, J. (2009). Roles of Senior Executives for Global Supply Chain Management: a Literature Review. 5lh International Congress on Logistics and SCM Systems,Seoul, Korea, June 2009.

Hong, P., **Kwon, H**., and Roh, J. (2009). Effective Environmental Business Practices for Successful Outcomes: An Empirical Study of Manufacturing Firms, 3rd International Symposium and Workshop on Global Supply Chain Management,PSGIM, Coimbatore, India, January 2009.

**Kwon, H**. and Joo, S. (2006). Benchmarking wireless mobile communication companies using Data Envelopment Analysis,” Decision Sciences Institute annual meeting, San Antonio, TX, November 2006.

**Works in Progress**

**Kwon, H**. Impact of green efficiency on firm performance: an application to rail operations. Target Journal: *Transportation Research: Part E*.

**Kwon, H**. Target selection and goal setting for continuous improvement using a hybrid DEA-Fuzzy ARTMAP approach, *Decision Sciences*.

**Kwon, H**. and Lee, J. Estimation of research quotient (RQ) in the high-tech SMEs using neural network. Target Journal: *Omega.*

**Kwon, H**. and Lee, J. Integrated synergy effect of environmental performance and operational efficiency for market value added (MVA) in large manufacturing firms.

Target Journal: *Journal of Cleaner Production.*

Lee, J. and **Kwon, H**. Strategic impact of R&D on market performance: application to large enterprises. Target Journal: *International Journal of Production Economics*.

Lee, J. and **Kwon, H**. Exploring synergy effect of environmental greening and reputation in the manufacturing firms. Target Journal: *Journal of Business Ethics.*

**Service/ Professional Activities**

**University/ School Service**

Faculty Hand Book Committee (**CSU-Pueblo**) 2017-present

Faculty Senate 2016-present

Academic Policies and Scholarly Board 2016-2017

Faculty Policy and Procedures Committee/ Chair 2015-2017

Faculty Policy and Procedures Committee 2012-2015

Faculty Development Grant Committee 2012-2015

Personal Review Committee (**HSB**) 2016-2017

Beta Gamma Sigma/ Faculty Advisor 2013-2017

POM Faculty Search Committee/ Chair 2016

Academic Advisor Search Committee 2015

POM visiting faculty search committee 2014

**Professional Service**

Editorial Board Member, J. of Management and Economics 2016-present

Reviewer, International Journal of Production Research 2016-2017

Reviewer, IEEE Trans. on Knowledge and Data Engineering 2017

Reviewer, Benchmarking: An International Journal 2017

Reviewer, Operations Research Perspectives 2016

Reviewer, International Journal of Production Economics 2015-2016

Reviewer, Expert Systems with Applications 2015-2016

Reviewer, Benchmarking: An International Journal 2014-2015

Reviewer, SEDSI Conference papers 2014

Member, International Scientific Committee 2013

6th Global Supply Chain Management Conference

Evaluator, Student Best Paper Award 2013

6th Global Supply Chain Management Conference

Discussant, SEDSI Conference 2013

Reviewer, SEDSI Conference papers 2013

Reviewer, International Journal of Production Economics 2012

Represented the University in ‘Supply Chain Educator’s Meeting’

in the Kansas City area 2012

Reviewer and session chair, WDSI Conference 2011

Reviewer, International Journal of Business Excellence 2011

Reviewer, WDSI Conference papers 2010

Guest lecturer, AACSB Bridge to Business Program 2009

University of Toledo

**Grants**

Faculty Seed Grant 2017

Colorado State University-Pueblo

Faculty Seed Grant 2015

Colorado State University-Pueblo

RSCA Productivity Grant 2015

Colorado State University-Pueblo

Provost’s Faculty Development Grant 2014/ 2015/ 2016/ 2017

Colorado State University-Pueblo

Summer Research Grant 2013/ 2014/ 2015/ 2016/ 2017

Hasan School of Business

**Awards**

Outstanding Faculty Award 2017

Colorado State University-Pueblo

Excellence in Research Award 2017

Hasan School of Business

Colorado State University-Pueblo

Excellence in Research Award 2015

Hasan School of Business

Colorado State University-Pueblo

Best Conference Paper Award 2014

Academic and Business Research Institute

International Conference

Las Vegas, NV. Oct. 10

Creativity and Scholarship Award 2010

Concord University

# Affiliation

Decision Sciences Institute, 2006 to present.

American Production and Inventory Control Society (APICS), 2010-present

Institute for Supply Management (ISM), 2010-present

**Academic Experiences**

Associate Professor of Logistics, 2010-2011

Park University, Kansas City MO

Associate Professor of Management, 2008-2010

Concord University, Athens WV

Visiting Research Scholar, 2006-2007

Central Washington University, Ellensburg WA

**Industry Experiences**

System Engineer,2005-2006

Samsung-Thales CO, Seoul, South Korea

Major duties: product definition

Information Systems Officer (2nd L/T.-L/T. Col.),1983-2005

Korean Air Force, Seoul, South Korea

Major duties: systems management, R&D planning, quality management,

program management, and etc.