

**Name:** He-Boong Kwon  
**Rank:** Associate Professor  
**Tenure status:** Tenured  
**Primary Teaching Field(s):** Production and Operations Management

### Education

Highest Degree/Year: Ph. D., 1995  
Major Field(s): Electrical Engineering  
Degree-Granting Institution: Florida Institute of Technology  
Other degrees/ programs: AACSB Endorsed Bridge to Business Program  
University of Toledo 2008  
MBA (39 credits)  
Pacific Lutheran University 2008  
MS/ Florida Institute of Technology 1992  
BA/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  
Pueblo, Colorado

#### Courses teaching:

MGMT 511 Production and Quality Management  
MGMT 311 Operation and Quality Management  
MGMT 491 Technology and Innovation Management  
MGMT 362 Purchasing Management  
BUSAD360 Advanced Statistics  
BUSAD265 Inferential Statistics

### Research Experience/ Scholarly Activities

#### Scholarly Articles

**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*. Vol. 23 (3).

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

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

**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*, Vol. 15, No. 2.

**Kwon, H.** (2014). Performance Modeling of Mobile Phone Providers: A DEA-ANN Combined Approach, *Benchmarking: an International Journal*. Vol. 21, No. 6.

Hong P. and **Kwon, H.\*** (2012). Emerging Issues of Procurement Management: a Review and Prospect, *International Journal of Procurement Management*, Vol. 5, No. 4. \*Corresponding author

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 Management*, Vol. 21, No. 3.

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*. Vol. 12, No. 4.

**Kwon, H.**, Joo, S., and Stoeberl, P. (2008). Measuring Relative Efficiencies and Merger Impacts of Wireless Communication Companies, *Benchmarking: An International Journal*: Vol. 15, No. 3.

### **Papers under Review**

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

**Kwon, H.** Exploring the Predictive Potential of Artificial Neural Networks in conjunction with DEA in Railroad Performance Modeling, *International Journal of Production Economics*. Under 2<sup>nd</sup> review.

### **Work in Progress**

Lee, J. and **Kwon, H.**, Operational strategic determinants of high-tech SMEs: comparative analysis between high and low performers. Target Journal: *Journal of Small Business Management*.

**Kwon, H.** and Lee, J. Efficiency analysis of Class I Railroad Using Stratified DEA and Neural Networks. Target Journal: *Transportation Research: Part E*.  
Lee, J.

**Kwon, H.** and Lee, J. Impact of strategic variables on performance: application to large enterprises. Target Journal: *Technovation*.

**Kwon, H.** and Lee, J. Measuring sustainability of high tech manufacturing firms in the U.S.. Target Journal: *International Journal of Production Research*.

**Kwon, H.** and Lee, J. Estimation of appropriate scale of R&D in high tech manufacturing firms using neural network. Target Journal: *International Journal of Production Economics*.

### **Conference Proceedings and Presentations**

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

**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. Accepted for presentation.

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

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), Jeju, Korea, May 2016. Accepted for publication.

**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<sup>th</sup> 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. 5<sup>th</sup> 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, 3<sup>rd</sup> 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.

**SERVICE/ PROFESSIONAL ACTIVITIES**

**University/ School Service**

Faculty Policy and Procedures Committee, Chair (CSU-P)	2015-present
Beta Gamma Sigma Faculty Advisor	2013-present
Faculty Policy and Procedures Committee	2012 to 2015
Faculty Development Grant Committee	2012-2015
Academic Advisor Search Committee	2015
POM visiting faculty search committee	2014

**Professional Service**

Reviewer, Expert Systems with Applications	2015
Reviewer, Benchmarking: An International Journal	2014
Reviewer, SEDSI Conference papers	2014
Member, International Scientific Committee	
6 <sup>th</sup> Global Supply Chain Management Conference	2013
Evaluator, Student Best Paper Award	
6 <sup>th</sup> Global Supply Chain Management Conference	2013
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, Benchmarking: an International Journal	2011
Reviewer, International Journal of Business Excellence	2011
Reviewer, WDSI Conference papers	2010
Guest lecturer, AACSB Post-doctoral Bridge to Business Program University of Toledo	2009

### **GRANTS**

Faculty Development Grant 2015 Colorado State University-Pueblo	2016
Faculty Development Grant 2014-2015 Colorado State University-Pueblo	2015
Faculty Seed Grant 2014-2015 Colorado State University-Pueblo	2014
RSCA Productivity Grant Colorado State University-Pueblo	2014
Summer Research Grant Hasan School of Business	2015
Summer Research Grant Hasan School of Business	2014
Summer Research Grant Hasan School of Business	2013

### **AWARDS**

Excellence in Research Award Hasan School of Business Colorado State University-Pueblo	2015
Best Conference Paper Award Academic and Business Research Institute International Conference Las Vegas, NV. Oct. 10, 2014.	2014
Creativity and Scholarship Award Concord University	2010

### **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 Park University, Kansas City MO	2011-2011
Associate Professor of Management Concord University, Athens WV	2008-2010
Visiting Research Scholar Central Washington University	2006-2007

## **INDUSTRY EXPERIENCE**

### **System Engineer**

Samsung-Thales CO , Seoul, South Korea

Major duties: product definition

### **Information Systems Officer (2<sup>nd</sup> L/T.-L/T. Col.)**

Korean Air Force, Seoul South Korea

Major duties: systems management, R&D planning

Quality management, program management

2005-2006

1983-2005