Jaewook Yoo

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PRESENT POSITION

Professor, Department of Business Administration
College of Business Administration
Dong-A University
225 Gudeok-ro, Seo-gu, Busan, 602-760
Republic of Korea

RESEARCH INTERESTS

- Operations Research, Operations Management
- Product Development Decisions
- Supply Chain Management

EDUCATION

- Ph.D., Industrial Engineering, Texas A&M University, College Station, TX, 2004.
- M.S., Industrial Engineering, Hanyang University, Korea, 1992
- B.S., Industrial Engineering, Hanyang University, Korea, 1990

EXPERIENCE

Academic-Teaching

- Professor, Department of Business Administration, Dong-A University, Busan, Korea, March 2022 to present.
- Associate Professor, Department of Business Administration, Dong-A University, Busan, Korea, September 2016 to February 2022.
- Assistant Professor, Department of Business Administration, Dong-A University, Busan, Korea, September 2011 to August 2016.
- Instructor, Department of Computer Science, Hanyang Women's College, Seoul, Korea, February 1996 to July 1996.

Academic-Administrative

- Department Head, Department of Business Administration, Dong-A University, Busan, Korea, December 2017 to June 2019.
- Associate Dean, College of Business Administration, Dong-A University, Busan, Korea, August 2016 to November 2017.

Industry

- Senior Engineer, Semiconductor Business Unit, Samsung Electronics, Hwasung, Korea, February 2010 to August 2011.
- Senior Engineer, Advanced Institute of Technology, Samsung Electronics, Kiheung, Korea, February 2009 to January 2010.
- Senior Engineer, Corporate Technology Operations, Samsung Electronics, Suwon, Korea, April 2004 to January 2009.
- Research Assistant, Texas Transportation Institute, College Station, TX, July 2000 - February 2004
- Engineer, Daewoo Institute for Advanced Engineering - Facility Division, Seoul, Korea, January 1995 to June 1995.

Military Service

- Sergeant, Korean Augmentation to US Army - Criminal Investigation Command, Seoul, Korea, December 1992 to December 1994.

PUBLICATIONS

Referred Journal Articles

- J. Yoo, A Study on IT Product Lifecycle Prediction Modeling using Markov Process and Historical Sales Volume -iPhone Case Study-, Journal of the Korea Academia-Industrial cooperation Society, Vol. 22, No. 10, pp. 255-267, October 2021.

- J. Yoo and C. Jung, The Effects of Corporate Governance on Idiosyncratic Volatility, The Effects of Corporate Governance on Idiosyncratic Volatility, Korean Journal of Business Administration, Vol. 34, No. 6, pp.1007-1024, June 2021.

- J. Yoo, Product Lifecycle Prediction Model for Multiple-Generation Product Lines Strategy using Markov Process, Korean Management Science Review, Vol. 38, No. 2, pp. 63-74, June 2021.

- J. Yoo, A Genetic Algorithm for Solving a QFD(Quality Function Deployment) Optimization Problem, International Journal of Contents, Vol.16, No. 4, pp. 26-38, December 2020.

- Prak Somary and J. Yoo, Location of Logistics Hubs for Courier Delivery Service in Cambodia, Korean Management Science Review, Vol. 37, No. 3, pp. 77-97, September 2020.

- S. Yoon, J. Lee, I. Lee, J. Yoo, Y. Ryu, J. Jung, M. Seo and S. Lee, Fishbowl Product Selection Attributes are Related to Customer Satisfaction and Repurchase Intention Impact, Korean Management Consulting Review, Vol. 19, No. 3, pp. 35-45, August 2019.

- J. Yoo and J. Yang, A Study on Optimization for Product Line Design Considering Outsourcing: Transaction Cost Approach, Korean Management Science Review, Vol. 36, No. 1, pp. 1-16, March 2019.

- J. Yoo and Ik-Sun Lee, Parallel machine scheduling with maintenance activities, Computers and Industrial Engineering, Vol. 101, pp 361-371, November 2016.

- J. Son and J. Yoo, Components clustering for modular product design using network flow model, Journal of the Korea Academia-Industrial cooperation Society, Vol. 17, No. 7, pp. 263-272, July 2016.

- J. Yang and J. Yoo, Mixed Integer Linear Programming Model to Determine the Optimal Levels of Technical Attributes in QFD under Multi-Segment Market, Korean Management Science Review, Vol. 33, No. 2, pp. 75-87, June 2016.

- J. Yoo, Using Fuzzy Numbers in Quality Function Deployment Optimization, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 39, No. 2, pp. 138-149, June 2016.

- J. Yoo and Ik-Sun Lee, Minimizing total completion times in a two-machine flowshop scheduling with outsourcing strategy allowed, Korean Management Science Review, Vol. 33, No. 2, pp. 1-10, June 2016.

- J. Yoo, Dynamic Programming Approach for Determining Optimal Levels of Technical Attributes in QFD under Multi-Segment Market, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 38, No. 2, pp. 120-128, June 2015.

- J. Yoo, Module communization for product platform design using clustering analysis, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 37, No. 3, pp. 89-98, September 2014.

- J. Yoo, A Greedy Genetic Algorithm for Release Planning in Software Product Lines, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 36, No. 3, pp. 17-24, September 2013.

- J. Yoo, Release Planning in Software Product Lines Using a Genetic Algorithm, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 35, No. 4, pp. 142-148, December 2012.

- J. Yoo, An Exact Solution Approach for Release Planning of Software Product Lines, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 35, No. 2, pp. 57-63, June 2012.

- J. Yoo and D. Lee,   A Regression-Based Approach for Central Warehouse Location Problem, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 32, No. 2, pp. 57-65, June 2009.

- D. Lee, J. Yoo, and M. Lee, An Approximation Approach for A Multi-Product Continuous Review Inventory Problem with Budget Constraint, Journal of the Society of Korea Industrial and Systems Engineering, Vol. 31, No. 4, pp. 134-139, December 2008.

- J. Yoo and A. Garcia-Diaz, Cost-Effective Selection and Multi-Period Scheduling of Pavement Maintenance and Rehabilitation Strategies, Engineering Optimization, Vol. 40, No. 3, pp. 205-222, March 2008.

Articles in Proceeding

- J. Yoo and A. Garcia-Diaz, "Cost-Effective Selection and Multi-Period Scheduling of Pavement Maintenance and Rehabilitation Strategies", Proceedings of the Industrial Engineering Research Conference, Paper No. 84, Houston, TX, May 16-19, 2004.

FUNDED RESEARCH PROJECTS

- "A Study on Optimization for Product Line Design Considering Outsourcing: Transaction Cost Approach," Principal Investigator: Jaewook Yoo, National Research Foundation of Korea, 2017.7.1~2018.6.30, 26,000,000 KRW (2,088 USD).

- "Development of a win-win cooperation model for the regional economy -Focused on fish cake business in Busan-," Principal Investigator: Sungwook Yoon, Co-Researcher: Jaewook Yoo and 7 others, National Research Foundation of Korea, 2016.11.~2017.10. 114,088,000 KRW (91,632 USD).

PRESENTATION

- Yoo, J.; "An Exact Solution Approach for Release Planning of Software Product Lines"; Korean Society of Industrial and Systems Engineering Conference, Changwon National University, May 12th, 2012.

- Yoo, J.; "Release Planning in Software Product Lines";Decision Support Systems; Austin INFORMS Conference, November 9th, 2010.

- Presented the article "Cost-Effective Selection and Multi-Period Scheduling of Pavement Maintenance and Rehabilitation Strategies", by J. Yoo and A. Garcia-Diaz, Industrial Engineering Research Conference, Houston, TX, May 19, 2004.

- Yoo, J. and A. Garcia-Diaz; "Multi-Period Optimization of Pavement Management Systems"; Transportation I;Atlanta INFORMS Conference, October 22nd, 2003.

CHAIR OF GRADUATE STUDENT COMMITTEES

Masters Students

- Zhou, Dandan, Department of Business Administration, Dong-A University, February 2019.
- Prak, Somary, Department of Business Administration, Dong-A University, February 2018.
- Yang, JaeYoung, Department of Business Administration, Dong-A University, February 2017.
- Son, Jiyang, Department of Business Administration, Dong-A University, August 2016.

MBA Students

- Oh, Jin-Hwan, Graduate School of Business Administration, Dong-A University, August 2021.
- An, Yongwon, Graduate School of Business Administration, Dong-A University, August 2021.
- Lee, In-Seob, Graduate School of Business Administration, Dong-A University, August 2018.
- Kim, Hyunmi, Graduate School of Business Administration, Dong-A University, August 2018.
- Kim, Mi-Hwa, Graduate School of Business Administration, Dong-A University, August 2018.
- Kim, Dukyong, Graduate School of Business Administration, Dong-A University, August 2018.
- Kim, Dongkyu, Graduate School of Business Administration, Dong-A University, August 2018.
- Jang, Hoik, Graduate School of Business Administration, Dong-A University, August 2017.
- Lee, Dong-Hoon, Graduate School of Business Administration, Dong-A University, August 2017.
- Seo, Hong-Ki, Graduate School of Business Administration, Dong-A University, August 2017.
- Son, Changpyo, Graduate School of Business Administration, Dong-A University, August 2016.
- Moon, Jong-Tack, Graduate School of Business Administration, Dong-A University, August 2016.
- Kim, Hongsu, Graduate School of Business Administration, Dong-A University, August 2016.
- Park, Jin-Sik, Graduate School of Business Administration, Dong-A University, August 2016.