



Society of Open Innovation,
Technology, Innovation & Complexity

SOI 2023-2024 INSTITUTIONAL MEMBERS

INTRODUCTION OF PROF. SUNGYONG CHOI



Hanyang University, School of Business (Division: Operations and Service Management)

Major Interests:

- (1) Research Areas: Supply Chain Management (SCM) Modeling and Applications under Risk, Service Operations and Quality Management, Inventory Management, Open Innovation, Analytics and Data-Driven Optimization, Operations-Finance/Marketing Interfaces
- (2) Subject Industries: Sustainable and Socially Responsible Operations, Energy, Healthcare, Humanitarian and Environmental Issues in Operations
- (3) Education Methods: ILSC (Instructor-Led, Students-Centered) Learning, IC-PBL (Industry-Coupled Problem-Based and Project-Based Learning), Flipped and Blended PBL, MOOC (Massive Online Open Courses)

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Published Papers (SSCI/SCIE)

- (1) **Impact of Entrepreneurial Orientation and Technology Acquisition on Technology Startups** (with B. Bae and Y. Choi). 2024. *Science, Technology, and Society*, Forthcoming
- (2) **A Data-Driven Viable Supply Network for Energy Security and Economic Prosperity** (with K.G. Mun, W. Cai, and M. Rodgers). 2023. *International Journal of Production Research*, Forthcoming.
- (3) **New Trends in Smart Cities: The Evolutionary Directions Using Topic Modeling and Network Analysis** (with M. Oh, C. Ahn, H. Nam, and M. Oh). 2023. *Systems*, 11, 410.
- (4) **Special Issue on Advances in Operations and Supply Chain Management with Sustainability Considerations**. 2023. *Sustainability*, 15, 5178.
- (5) **Servitization of SMEs: Focused on the Electrical Equipment and Metal Parts Manufacturers in South Korea** (with C. Ahn and M. Oh). 2023. *Processes*, 11, 142.
- (6) **Supply Chain Investment and Contracting for Carbon Emissions Reduction: A Social Planner's Perspective** (with J.Y. Lee). 2021. *International Journal of Production Economics*, 231, 107873.
- (7) **The Optimal Emission Decisions of Sustainable Production with Innovative Baseline Credit Regulations** (with K. Park and S. Shim). 2019. *Sustainability*, 11, 1635.
- (8) **A Newsvendor Analysis of Binomial Yield Production Process** (with S. Jeon, J. Kim, and K. Park). 2019. *European Journal of Operational Research*, 273, 983-991.
- (9) **A Loss-Averse Newsvendor with Cap-and-Trade Carbon Emissions Regulation**. 2018. *Sustainability*, 10, 2126.
- (10) **Innovative Production Scheduling with Customer Satisfaction Based Measurement for Sustainability of Manufacturing Firms** (with S. Shim and K. Park). 2017. *Sustainability*, 9, 2249.
- (11) **A Risk-Averse Inventory Model with Markovian Purchasing Costs** (with K. Park). 2015. *Mathematical Problems in Engineering*, Volume 2015, Article ID 925765, 9 pages.
- (12) **A Multi-Product Risk-Averse Newsvendor with Law-Invariant Coherent Measures of Risk** (with A. Ruszczyński and Y. Zhao). 2011. *Operations Research*, 59 (2), 346-364.
- (13) **A Multi-Product Risk-Averse Newsvendor with Exponential Utility Function** (with A. Ruszczyński). 2011. *European Journal of Operational Research*, 214, 78-84.
- (14) **A Risk-Averse Newsvendor with Law-Invariant Coherent Measures of Risk** (with A. Ruszczyński). 2008. *Operations Research Letters*, 36(1), 77-82.

Working and Work-in-Progress Papers (SSCI/SCIE)

- (1) **How Do Developing Countries Design Their Sustainable Energy Supply Chains? A Data-Driven Energy-Mix Policy in Pakistan** (with K.G. Mun, W. Cai, and M. Rodgers)
- Revised and re-submitted for the 2nd round review (Last Review Decision: Minor Revision) at *Computers and Industrial Engineering*
- (2) **Identifying Risk Factors of Cold Chain Management using Topic Modeling: In the Food and Medicine** (with D. Fu, M. Oh, K. Lim, and H. Han)
- In-preparation for the 2nd round review (Last Review Decision: Major Revision) at *Annals of Operations Research*
- (3) **Considering Emission Reduction Coordination in a Two-Echelon Supply Chain** (with B. Maeng)
- Finalizing its manuscript after the study, expected to submit the paper at *IEEE Access*, Aug. 2024.
- (4) **Why Do Advanced Countries' R&D Innovation Efforts Fail to Produce Sufficient Economic Results?: A Cross-Country Study in the Two-Stage DEA-Tobit Model** (with M. Oh, H. Nam, and Y. Choi)
- Finalizing its manuscript after the study, expected to submit the paper at *Public Performance and Management Review*, Oct. 2024.
- (5) **The Impacts of Project Portfolio Structures on Portfolio Success: The Moderating Roles of Portfolio Management Maturity** (with M. Oh, J. Oh, and Y. Choi)
- Analyzing the results and writing manuscripts, expected to submit the paper at *International Journal of Project Management*, Dec. 2024.
- (6) **Salesforce Compensation Scheme: Customer Satisfaction and Dual Distribution Channel** (with C. Ahn, H. Rhim, and K. Park)
- Analyzing the results and writing manuscripts, expected to submit the paper at *International Journal of Production Economics*, Mar. 2025

Honors and Awards

- (1) **Runner-Up Winner at the IC-PBL (Industry-Coupled Problem-Based Learning) Best Class Award**, Global Innovation for IC-PBL, Jan. 2024
- (2) **Winner at the Best Presentation Award**, 2023 ICLS International Conference, ICLS (International Congress on Logistics and Supply Chain Management), Aug. 2023
- (3) **Winner at the Outstanding Paper Award**, 2023 SOI Annual Conference, SOI (Society of Open Innovation), July 2023
- (4) **Winner at the Best Paper Award**, 2023 Spring KSPM Conference, KSPM (Korean Society of Project Management), Jun. 2023
- (5) **Front Runner Winner at the IC-PBL Innovative Teaching Award**, Hanyang University, Aug. 2022
- (6) **Winner at the Outstanding Paper Award**, 2022 SOI Annual Conference, SOI (Society of Open Innovation), July 2022
- (7) **Winner at the Best Paper Award**, 2021 SOI Annual Conference, SOI (Society of Open Innovation), July 2021
- (8) **Winner at the Researcher of the Month (Category: Humanities, Social Science, Arts, and Sports)**, Hanyang University Industry-University Cooperation Foundation, Feb. 2021
- (9) **Winner at the Best Reviewer Award (2018-2019)**, *Journal of the Korean Operations Research and Management Science Society*, KORMS (Korean Operations Research and Management Science Society), Oct. 2020
- (10) **Winner at the Best Paper Award**, 2020 SOI Annual Conference, SOI (Society of Open Innovation), July 2020
- (11) **Winner at the Best Paper Award**, 2019 Fall KAABA Conference, KAABA (Korean Academic Association of Business Administration), Dec. 2019
- (12) **Winner at the Best Paper Award**, 2018 SOI Annual Conference, SOI (Society of Open Innovation), July 2018
- (13) **Winner at the Outstanding Reviewer Award**, *European Journal of Operational Research*, Elsevier, Jun. 2018
- (14) **Winner at the Outstanding Reviewer Award**, *European Journal of Operational Research*, Elsevier, July 2017
- (15) **Winner at the Best Paper Award**, 2017 SOI Annual Conference, SOI (Society of Open Innovation), July 2017
- (16) **Runner-Up Winner at the Best Paper Award**, 2016 Spring KRABE Conference, KRABE (Korean Research Association for Business Education), June 2016
- (17) **Winner at the Best Paper Award**, 2016 Spring KLA Conference, KLA (Korean Logistics Association), May 2016
- (18) **Runner-Up Winner at the Elwood S. Buffa Dissertation Competition**, DSI (Decision Science Institute), Nov. 2010: an extended abstract was published at *Decision Sciences Journal*, 41(4), 983-1000
- (19) **Finalist for the Student Paper Competition**, COSP (Committee on Stochastic Programming), Aug. 2010

Professional Service (International Academics)

- (1) **Board Membership**: Advisory Board Member & Registered Director at SOI (Society of Open Innovation)
- (2) **Membership in Academic Society**: INFORMS (Institute for Operations Research and Management Science), DSI (Decision Science Institute), POMS (Production and Operations Management Society)
- (3) **Secretary**: INFORMS Korean Chapter, 2017-Present

Professional Service (Korean Academics)

- (1) **Vice President**: KORMS (Korean Operations Research and Management Science Society), 2024-Present
- (2) **Editor-in-Chief**: Korean Management Science Review, KORMS, 2024-Present; Project Management Review, KSPM (Korea Society of Project Management), 2020-Present
- (3) **Chair, Research Ethics Committee**: KLS (Korean Logistics Society), 2021-Present
- (4) **Auditor**: KPA (Korean Productivity Association), 2020-2021