

Daiki Min

Associate Professor,
Ewha School of Business, Ewha Womans University, Seoul, Korea

Research Interests

- Stochastic Dynamic Programming, Markov Decision Process, Text Analytics
 - Operations management in service industry
 - Energy policy, Green SCM
-

Education

- Ph.D.**, School of Industrial Engineering *Aug 2006 – May 2010*
[Purdue University](#), West Lafayette, IN, USA
- M.S.**, Department of Industrial Engineering *Mar 1999 – Feb 2001*
[Seoul National University](#), Seoul, Korea
- B.S.**, Department of Industrial Engineering *Mar 1995 – Feb 1999*
[Seoul National University](#), Seoul, Korea
-

Publications

International Journal

- [Daiki Min](#), Jong-hyun Ryu and Dong Gu Choi (2020), “Effects of the move towards renewables on the power system reliability and flexibility in South Korea”, *Energy Reports*, 6, 406-417
- Hana Moon and [Daiki Min](#) (2020), “A DEA approach for evaluating the relationship between energy efficiency and financial performance for energy-intensive firms in Korea”, *Journal of Cleaner Production*, 255, 120283
- Jinah Yang, [Daiki Min](#), Jeenyong Kim (2020), “The use of big data and its effects in a diffusion forecasting model for Korean reverse mortgage subscribers”, *Sustainability*, 12, 979.

- Daiki Min, H.S. Chon and H. Im (2019), “A DEA model for using qualitative data to rank options for adapting to climate change”, *Industrial Engineering & Management Systems*, 18(2):260-273.
- Daiki Min, Jong-Hyun Ryu and Dong-Gu Choi (2018), “A long-term capacity expansion planning model for an electric power system integrating large-size renewable energy technologies”, *Computers & Operations Research*, 96:244-255.
- J.H. Ryu, Daiki Min and D.G. Choi (2018), “Economic value assessment and optimal sizing of an energy storage system in a grid-connected wind farm”, *Energies*, 11(3).
- Engab Kim and Daiki Min (2018), “Designing an optimal inventory replenishment strategy in a combined MTS-MTO supply chain”, *International Journal of Industrial Engineering-Theory Applications and Practice*, 25(5):620-633.
- Daiki Min and Kwanghun Chung (2017), “A joint optimal decision on shipment size and carbon reduction under direct shipment and peddling distribution strategies”, *Sustainability*, 9
- Hyung-Suk Choi and Daiki Min (2017), “Efficiency of well-diversified portfolios: Evidence from data envelopment analysis”, *Omega*, 73:104-113.
- Hana Moon and Daiki Min (2017), “Assessing energy efficiency and the related policy implications for energy-intensive firms in Korea: DEA approach”, *Energy*, 133:23-34.
- Daiki Min and Yuehwern Yih (2014), “Managing a patient waiting list with time-dependent priority and adverse events”, *RAIRO-Operations Research*, 48(1):53-74.
- Daiki Min and Jaewoo Chung (2013), “Evaluation of the long-term power generation mix: The case of South Korea's energy policy”, *Energy Policy*, 62:1544-1552.
- Sangbok Lee, Daiki Min, Jonghyun Ryu, Yuehwern Yih (2013), “A Simulation Study of Appointment Scheduling in Outpatient Clinics: Open Access and Overbooking”, *Simulation: Transactions of the Society for Modeling and Simulation International*, 89(12):1459-1473.
- Kwanghun Chung and Daiki Min (2013), “Staffing a service system with appointment-based customer arrivals”, *Journal of the Operational Research Society*, In Press.

- Daiki Min and Yuehwern Yih (2011), “Fuzzy Logic-based approach to RFID data management in an outpatient clinic environment”, *Journal of Medical Systems*, 35(3):423-432.
- Daiki Min and Yuehwern Yih (2010), “Scheduling elective surgery patients under uncertainty and downstream capacity constraints”, *European Journal of Operational Research*, 206(3):642-652.
- Daiki Min and Yuehwern Yih (2010), “An elective surgery scheduling problem considering patient priority”, *Computers and Operations Research*, 37(6):1091-1099.
- Daiki Min and Yuehwern Yih (2009), “A simulation study of registration queue disciplines in an outpatient clinic: a two-stage patient flow model”, *European Journal of Industrial Engineering*, 3(2):127-145.

International Conference Proceedings

- Daiki Min and Yuehwern Yih, “Dynamic programming approach to an elective surgery schedule considering patient priority”, *Proceedings of Industrial Engineering Research Conference*, Miami, Florida, May 30- Jun 3, 2009 – **Award Best Track Paper.**

Domestic Journal

- 황진아, 민대기, 김지영 (2019), 속성기준 군집분석 기법을 이용한 온라인 검색 광고에서의 키워드 선정 방안, *대한산업공학회지*, 45(5):451-464.
- 양진아, 김은갑, 민대기 (2019), 순위반응모형을 이용한 주택연금의 잠재시장 규모 추정, *유라시아연구*, 16(3):61-80
- 민대기, 정광현 (2018), 상향식-하향식 DEA 모형을 이용한 온실가스 감축량 배분, *경영과학*, 35(3):53-64
- 민대기, 류중현, 최동구 (2018), 탈원전, 탈석탄, 신재생 에너지 확대 정책에 따른 신규 전원구성의 수급 안정성 평가, *에너지경제연구*, 17(1):1-35.
- 조나래, 민대기 (2017), DEA 를 활용한 중앙집중식 온실가스 감축 할당 모형, *대한산업공학회지*, 43(3):203-212
- 김진영, 민대기, 최형석 (2017), 자산구성과 노후준비 인식 수준에 따른 주택연금 가입결정 요인에 관한 연구, *경영연구*, 32(2):257-281

- 구훈영, 민대기 (2017), 제조업종의 지역별 산업성장 및 고용효과 분석, 경영과학, 34(1):15-25
- 민대기, 구훈영 (2017), 동아시아 제조업 업종별 고용효과의 DEA 를 활용한 분석, 유라시아연구, 14(1):47-66
- 민대기, 구훈영 (2017), 병원 외래환자의 예약부도 요인, 한국전자거래학회지, 22(1):37-49
- 양진아, 민대기, 최형석 (2017), Bass 확산모형을 활용한 국내 주택연금의 중장기 수요예측, 한국경영과학회지, 42(1):29-41
- 민대기 (2016), 데이터마이닝을 활용한 인구집단 구성과 경제적 불평등 평가, 유라시아연구, 13(1):173-190.
- 구훈영, 민대기, 이재호 (2016), 지역 혁신기관의 효율성 분석, 경영연구, 31(1):163-181.
- 문하나, 민대기 (2015), DEA 를 활용한 국내 기업의 에너지효율성 분석, 경영과학, 32(3):37-54.
- 민대기 (2015), Carbon reduction investments under direct shipment strategy, MSFE, 21(1):25-29.
- 민대기 (2015), 순회배송 물류전략에서 탄소배출 비용의 효과 분석, 한국경영과학회지, 40(1):21-33.
- 민대기 (2015), 탄소배출권거래제도에서의 공급망 조정 모형, 대한산업공학회지, 41(3):243-252
- 민대기 (2013), 탄소 배출권거래 비용을 고려한 직배송 물류전략의 효과성 평가, 한국생산관리학회지, 24(3).
- 정재우, 민대기 (2013), 확률계획법을 활용한 원자력 대체비용의 분석, 경영과학, 30(1):1-10.
- 구훈영, 민대기 (2013), 델파이 활용 신재생 에너지 수요예측과 장기전원 구성의 경제성 평가, 대한산업공학회지, 39(3):161-169.

- 정재우, 민대기 (2012), 불확실성을 고려한 장기 전원 포트폴리오의 평가, 한국경영과학회지, 37(3):135-150.
- 민대기 (2012), 예약기반 서비스 시스템에서의 고객 도착 프로세스 분석, 한국경영과학회지, 37(2):31-43.
- 정석재, 민대기 (2012), 재난대응 물류에 관한 연구동향: 네트워크 구성 및 공급계획 모형, 한국통신학회지, 29(5):50-61.
- 민대기 (2011), 두 단계 서비스 시스템에서 교차예약정책의 평가, 한국시물레이션학회 논문지, 20(3):29-39.
- 민대기 (2011), 외래병원 환경에서 UHF 수동형 RFID 기술을 활용한 태그 추적 시스템 개발, 한국전자거래학회지, 16(3):113-127.
- 민대기 (2011), 정기발주 재고모형에서 공급자 수율 정보 공유의 기대효과 분석, 한국경영과학회지, 36(3):61-74.
- 민대기 (2011), 환자 우선순위를 고려한 수술실 예약: 이진검색을 활용한 수정평가치반복법, IE Interface, 24(4):274-280.
- 민대기 (2011), 추계적 계획법을 이용한 수술실 예약 모델과 Newsvendor 비율의 자원 효율성에 대한 영향 분석, 경영과학, 28(2):17-29.
- 민대기, Yuehwern (2011), 행위자(Agent) 기반 시물레이션 모델을 활용한 대장암 진단정책 평가, 경영연구, 26(2):69-88.

Teaching

- Management Science (Undergraduate)
- Service Operations Management (MBA)
- Business Statistics (Undergraduate)
- Production and Operations Management (Undergraduate, MBA)
- Management Science (Undergraduate)
- *Best Teaching Awards: MBA 2012 Fall (Operations Management)*

Work Experience

Ewha Woman University, College of Business Administration, Seoul, Korea
Sep 2010 – Present

Graduate Research Assistant, TAP (Technical Assistant Program), Purdue University, IN,
USA *Oct 2006 – May 2010*

LG CNS, Seoul, Korea

Jan 2001 – Jul 2006

Contact

[College of Business Administration](#)
[Ewha Womans University](#)
Seoul, South Korea

Tel: +82-2-3277-3923

dmin@ewha.ac.kr
