



Gözdem Dural-Selçuk, Ph.D.

Instructor

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EDUCATION

| | |
|------------------|---|
| 2010-2015 | Hacettepe University, Department of Business Administration/Quantitative Methods, Ph.D. |
| 2007-2010 | Bilkent University, Faculty of Business Administration, MBA |
| 1988-1994 | Middle East Technical University, Department of Industrial Engineering, B.S. |

ACADEMIC POSITIONS

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| Feb 2019 – Present | Lecturer, Department of Industrial Engineering Atılım University, Turkey |
| Jan 2015- Jan 2019 | Research/Teaching Assistant, Institute of Population Studies / Department of Policy and Strategy Studies Hacettepe University, Turkey |
| Jan 2016- Jan 2017 | Research Associate, School of Management / Department of Information, Decisions and Operations (IDO) / Bath Centre for Healthcare Innovation & Improvement (CHI2) University of Bath, United Kingdom |
| Jan 2011-Jan 2015 | Research / Teaching Assistant, Department of Business Administration Middle East Technical University, Turkey |

INDUSTRIAL POSITIONS

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| May 2010-June 2010 | Merchandiser, Phillip Morris SA, Trade Marketing Department |
| July 2007-April 2010 | Project Evaluation and Analysis Engineer, ASELSAN Inc, Land and Missile Programs |

ADMINISTRATIVE DUTIES

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| July 2019 - Present | MUDEK coordinator, Department of Industrial Engineering, Atılım University, Turkey |
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HONORS&AWARDS

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| 1 | Honor scholarship by Bilkent University for MBA education, 2007-2010 |
| 2 | Middle East Technical University Honor's List, 2003-2007 |
| 3 | DAAD Summer School Scholarship in Germany, 2005 |
| 4 | 1st rank among TED Zonguldak College 2002 graduates |

RESEARCH INTERESTS

| | |
|----------|--|
| 1 | Operations Research applied in Healthcare Services |
| 2 | Simulation |

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| 3 | System Dynamics Modelling |
| 4 | Stochastic Dynamic Programming |

PUBLICATIONS

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|---|---|
| 5 | Dural-Selcuk, G. , Rossi, R., Kilic, O. A., & Tarim, S. A. (2019). The Benefit of Receding Horizon Control: Near-Optimal Policies for Stochastic Inventory Control. <i>Omega</i> . https://doi.org/10.1016/j.omega.2019.07.007 |
| 4 | Dural-Selcuk, G. & Cimen, M. (2013). Optimal Lot Sizing with NPV Approach for Inventory Systems with Constant Demand. <i>IFAC Proceedings Volumes</i> , 46(9), 1997-2002. https://doi.org/10.3182/20130619-3-RU-3018.00308 |
| 3 | Dural-Selcuk, G. , Vasilakis, C. "Evaluating the sustainability of complex health system transformation in the context of population ageing: a system dynamics approach" (Under Review – <i>European Journal of Operational Research</i>) |
| 2 | Dural-Selcuk, G. , Tunc, H., Tarim, SA. "An integrated economy-demography model: A system dynamics application" (Under Review – <i>System Dynamics Review</i>) |
| 1 | Çimen, M., Dural-Selcuk, G. , Tarım, Ş. "Paranın zaman değeri çerçevesinde stok maliyetleri ve yenileme kararları" (Under Review – Uludağ Üniversitesi Mühendislik Fakültesi Dergisi) |

PROJECTS

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| 1 | Analyst in Residence (AiR) In collaboration with Yeovil District Hospital NHS Foundation Trust and University of Bath, School of Management/ Bath Centre for Healthcare Innovation & Improvement (CHI2) Jan 2016-Jan 2017 |
| 2 | Researcher Turkey National Burden of Disease Study, in collaboration with Hacettepe University Institute of Population Studies, Ministry of Health, McKinsey & Company and University of Washington / Institute for Health Metrics and Evaluation (IHME) Aug 2015-Oct 2015 / March 2013-Aug 2013 |
| 3 | Researcher Optimal (s, S) Inventory Policy under Markov Modulated Non-Stationary Demand: A Computational Approach. Scientific and Technological Research Council of Turkey #110M500 May 2011-May2014 |

CONFERENCE PRESENTATIONS

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|---|---|
| 1 | Dural-Selcuk, G. "Evaluation of the Use of Virtual Clinics for the Management of Chronic Conditions: A Simulation Case Study for Glaucoma" 5 th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019 |
| 2 | Dural-Selcuk, G. , Vasilakis, C. "Evaluating the sustainability of complex health system transformation in the context of population ageing: a system dynamics approach" 38. Yöneylem Araştırması ve Endüstri Mühendisliği |

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| | Ulusal Kongresi (YAEM), Eskişehir, Türkiye, 26-29 Haziran 2018 |
| 3 | Dural-Selcuk, G. , Vasilakis, C. "Evaluating the sustainability of complex health system transformation in the context of population ageing: a system dynamics approach" 43 th annual meeting of the EURO Working Group on Conference of Operational Research Applied to Health Services, ORAHS2017. Bath, UK, 30 July-4 August 2017 |
| 4 | Dural-Selcuk, G. , Vasilakis, C. "Supporting the implementation and evaluation of health system transformation with operational research" 42 th annual meeting of the EURO Working Group on Conference of Operational Research Applied to Health Services, ORAHS2016. Pamplona, Spain, 24-29 July 2016 |
| 5 | Dural-Selcuk, G. , Kilic, O.A., Tarim, S.A. and Rossi, R. "A comparison of lot-sizing methods for non-stationary stochastic demands" 27 th European Conference on Operational Research. Glasgow, Scotland, 12-15 July 2015 |
| 6 | Dural-Selcuk, G. , & Cimen, M. (2013). Optimal Lot Sizing with NPV Approach for Inventory Systems with Constant Demand. IFAC Conference on Manufacturing, Modelling, Management and Control. St.Petersburg, Russia, 19-21 June 2013 |

WORKSHOPS AND CERTIFICATES

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| 1 | Workshop on Improving healthcare operations through modelling and simulation supported by British Council Newton Fund grant. University of Bath, UK, 28-30 July 2017 |
| 2 | Global Burden of Disease Technical Training Workshop, Rhodes, Greece, 7-17 May 2013 |
| 3 | Analyzing Project Management Indicators, Carnegie Mellon SEI, Pittsburgh, USA, 30 October 2008 |
| 4 | Project Management Principles and Contract Management, PMI, Ankara, 8-11 September 2008, |
| 5 | Measurement and Analysis Workshop, Carnegie Mellon SEI, Ankara, 28-30 November 2007 |
| 6 | ZMP (Zentralen Mittelstufen Prüfung), Mannheim, Germany, 2005 |
| 7 | ZD (Zertifikat Deutsch), Bonn, Germany, 2003 |

COURSES GIVEN

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|---|---|
| 1 | IE202 Probability and Statistics II (Undergrad.) |
| 2 | IE220 Probability and Statistics for Engineers (Undergrad.) |
| 3 | IE326 Quality Control and Assurance (Undergrad.) |
| 4 | Simulation (PhD) |
| 5 | Teaching assistance: Operations Management (Undergrad., MBA) |
| 6 | Teaching assistance: Management Science (Undergrad., MBA) |
| 7 | Teaching assistance: Business Computing Laboratory (Visual Basic Lab.) (Undergrad.) |

