

# Dr. -Ing. Olcay POLAT



## PERSONAL INFORMATON

- **Date of Birth and Place** 11.10.1983 – Denizli/Turkey
- **Nationality:** TR
- **Address:** Pamukkale Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, A Blok, 4. Kat, Oda:450, 20160, Pamukkale/Denizli, Turkey
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- **Military Service:** 04/2009 – 10/2009
- **Marital Status:** Married

## EDUCATION

- 09/1997 – 06/2000 **Denizli High School**, Denizli, Turkey
- 10/2000 – 07/2001 **Eskişehir Osmangazi University**, Eskişehir , Turkey  
Department of Foreign Languages, English Preparatory School.
- 10/2001 – 07/2005 **Eskişehir Osmangazi University**, Eskişehir , Turkey  
Bachelor – Major Program: Engineering and Architecture Faculty, Department of Industrial Engineering (Prof. Dr. Emin Kahya)
- 10/2002 – 07/2005 **Eskişehir Osmangazi University**, Eskişehir, Turkey  
Bachelor – Minor Program: Business Administration Faculty, Department of Business Administration
- 10/2005 – 10/2008 **Pamukkale University**, Denizli, Turkey  
Master of Science – Main Program: Institute of Natural Sciences, Major Science of Industrial Engineering (Assoc. Prof. Dr. Özcan Mutlu)
- 09/2007 – 03/2008 **Technical University of Berlin**, Berlin, Germany  
Master of Science – Erasmus Program: Institute of Business Economy and Management, Department of Industrial Engineering (Prof. Dr. Hans-Otto Günther)
- 10/2009 – 06/2013 **Technical University of Berlin**, Berlin, Germany  
Doctor of Philosophy: Institute of Business Economy and Management, Department of Industrial Engineering, Chair of Production Management (Prof. Dr. Hans-Otto Günther)

## EXPERIENCE

- 12/2005 – 07/2013 **Pamukkale University**, Denizli, Turkey  
Department of Industrial Engineering, Research Assistant
- 11/2009 – 05/2013 **Technical University of Berlin**, Berlin, Germany  
Department of Production Management, DAAD Researcher
- 07/2013 – 02/2016 **Pamukkale University**, Denizli, Turkey  
Department of Industrial Engineering, Research Assistant Dr.
- 02/2016 – ..... **Pamukkale University**, Denizli, Turkey  
Department of Industrial Engineering, Assistant Professor Dr.
- 02/2016 – 02/2017 **Pamukkale University**, Denizli, Turkey  
Department of Industrial Engineering, Erasmus+ Departmental Coordinator.
- 10/2016 – ..... **Pamukkale University**, Denizli, Turkey  
Department of Industrial Engineering, Vice Chair.

## PROJECTS

- 10/2004 – 08/2005 **KOSGEB-Girişim Danışmanlık**, Eskişehir, Turkey  
National Industrial Improvement Program, Free Enterpriser Improvement Project
- 10/2005 – 02/2007 **TÜBİTAK, 104M376**, Denizli, Turkey  
Turkish National Researcher Improvement Program, Student Researcher, “*Life Cycle Assessment of a Specified Textile Product*”
- 11/2006 – 10/2008 **PAUBAP, 2007FBE016**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Co-Researcher, “*Solving Assembly Line Worker Assignment and Balancing Problem with using Genetic Algorithms*”

- 07/2008– 07/2009 **PAUBAP, 2008KRM005**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Co-Researcher, *“Improving Education Conditions of Industrial Engineering Departments”*
- 08/2013– 02/2016 **PAUBAP, 2013BSP022**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Co-Researcher, *“Solving the Vehicle Routing Problem with Simultaneous Pickup and Delivery with Time Limit Using Meta-heuristic Methods”*
- 07/2014– 02/2016 **PAUBAP, 2014KRM005**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Co-Researcher, *“Sectoral Analysis in Regional Development and The Role of Industrial Engineering Department”*
- 06/2014– 11/2016 **PAUBAP, 2014BSP012**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Coordinator, *“Solution Approaches For the Vehicle Routing Problem with Divisible Delivery and Pickup”*
- 05/2015– ..... **TUBITAK, 214M224**, Denizli, Turkey  
Turkish National Researcher Improvement Program, Co-Researcher, *“Designing efficient algorithms for Cardinality Constrained Portfolio Optimization Problem”*
- 08/2017– ..... **PAUBAP, 2017FBE039**, Denizli, Turkey  
Pamukkale University Scientific Research Program, Coordinator, *“Improvement of Buffer Management by Simulation-Optimization Methods in Batch Production Line: An Application in a Corrugated Cardboard Company”*

#### LANGUAGES

- **English** (Expert)
- **German** (Advanced)

#### CURRENT RECENT INTEREST:

- Combinatorial Optimization
- Modern Heuristics and Metaheuristics
- Maritime Logistics
- Port Logistics
- Green Logistics
- Vehicle Routing Problems
- Traffic and Transportation
- Assembly and Disassembly Line Balancing
- Supply Chain Networks
- Remanufacturing

#### GIVEN COURSES:

- |                    |                   |   |               |
|--------------------|-------------------|---|---------------|
| • 2015-2016 Spring | <b>(IENG 222)</b> | Entrepreneurship – II                       | (Bachelor Sc) |
|                    | <b>(IENG 474)</b> | Logistics Information Systems               | (Bachelor Sc) |
|                    | <b>(YBS 480)</b>  | Management by Strategic Objectives          | (Bachelor Sc) |
| • 2016-2017 Fall   | <b>(CENG 291)</b> | Database Management                         | (Bachelor Sc) |
|                    | <b>(IENG 229)</b> | Logistics Management                        | (Bachelor Sc) |
|                    | <b>(IENG 305)</b> | Simulation                                  | (Bachelor Sc) |
|                    | <b>(RSO 341)</b>  | Introduction to Industrial Design           | (Bachelor Sc) |
|                    | <b>(ENM 550)</b>  | Industrial Optimization                     | (Master Sc)   |
|                    | <b>(MUHY 577)</b> | System Analysis                             | (Master Sc)   |
| • 2016-2017 Spring | <b>(IENG 429)</b> | System Simulation                           | (Bachelor Sc) |
|                    | <b>(IENG 474)</b> | Logistics Information Systems               | (Bachelor Sc) |
|                    | <b>(IENG 222)</b> | Entrepreneurship – II                       | (Bachelor Sc) |
|                    | <b>(IENG 476)</b> | Optimization in Logistics                   | (Bachelor Sc) |
|                    | <b>(IENG 467)</b> | Lean Manufacturing Methods and Applications | (Bachelor Sc) |
|                    | <b>(ENM 563)</b>  | Advanced Logistics Optimization             | (Master Sc)   |

#### JOURNAL ARTICLES (SCI, SCI-E, SSCI, AHCI, ESCI)

- Mutlu, Ö., Polat, O., Supciller, A.A. (2013) “An Iterative Genetic Algorithm for the Assembly Line Worker Assignment and Balancing Problem of Type-II”, **Computers & Operations Research**, 40 (1), January 2013, 418–426, <[DOI](#)>, (Cites: 51).
- Kulak, O., Polat, O., Gujjula, R., Günther, H.-O. (2013) “Strategies for Improving a Long-Established Terminal's Performance: A Simulation Study of a Turkish Container Terminal”, **Flexible Services and Manufacturing**, 25 (4), December 2013, 503-527, <[DOI](#)>, (Cites: 17).

- Polat, O., Günther, H.-O., Kulak, O., (2014) "The Feeder Network Design Problem: Application to Container Services in the Black Sea Region", **Maritime Economics & Logistics**, 16 (3), September 2014, 343-369, <DOI>, (Cites: 13).
- Kalaycı, C.B, Polat, O., Gupta, S.M. (2015) "A Variable Neighborhood Search Algorithm for Disassembly Lines", **Journal of Manufacturing Technology Management**, 26 (2), February 2015, 182-194, <DOI>, (Cites: 7).
- Polat, O., Kalaycı, C.B, Kulak, O., Günther, H.-O., (2015) "A Perturbation Based Variable Neighborhood Search Heuristic for Solving the Vehicle Routing Problem with Simultaneous Pickup and Delivery with Time Limit", **European Journal of Operational Research**, 242 (2), April 2015, 369-382, <DOI>, (Cites: 31).
- Çapraz, O., Polat, O., Güngör, A. (2015) "Planning of Waste Electrical and Electronic Equipment (WEEE) Recycling Facilities: MILP Modelling and Case Study Investigation", **Flexible Services and Manufacturing**, 27 (4), 479-508, <DOI>, (Cites: 6).
- Coşkun, S., Özgür, L., Polat, O., Güngör, A. (2016) "A Model Proposal for Green Supply Chain Network Design Based On Consumer Segmentation", **Journal of Cleaner Production**, 110, 149-157, <DOI>, (Cites: 33).
- Polat, O., Kalaycı, C., Mutlu, Ö., Gupta, S.M. (2016) "A Two-phase Variable Neighborhood Search Algorithm for Assembly Line Worker Assignment and Balancing Problem Type-2: An Industrial Case Study", **International Journal of Production Research**, 54 (3), 722-741, <DOI>, (Cites: 8).
- Kalaycı, C.B, Polat, O., Gupta, S.M. (2016) "A Hybrid Genetic Algorithm for Sequence-Dependent Disassembly Line Balancing Problem", **Annals of Operational Research**, 242, 321-354, <DOI>, (Cites: 24).
- Polat, O. (2017), "A Parallel Variable Neighborhood Search for the Vehicle Routing Problem with Divisible Deliveries and Pickups". **Computers & Operations Research**, 85, 71-86, <DOI>.
- Çapraz, O., Polat, O., Güngör, A. (2017) "Performance Evaluation of Waste Electrical and Electronic Equipment Disassembly Layout Configurations Using Simulation". **Frontiers of Environmental Science & Engineering**, In Press.

#### JOURNAL ARTICLES (OTHER INDEXES)

- Kahya, E., Polat, O. (2007), "Bir işletmenin Mekanik İşler Atölyesi'nde Oranlarla İşgücü Verimlilik Yönetim Sistemi (WPMR) Tasarımı", **Verimlilik Dergisi**, 2007/2, 9-36, <DOI>, (Cites: 1).
- Çapraz, O., Polat, O. (2015) "Mühendislik Fakültesi Öğrencilerinin Bir Üniversite Kütüphanesi Hizmetlerine İlişkin Görüşlerinin İncelenmesi", **Pamukkale Üniversitesi Sosyal Bilimler Enstitüsü Dergisi**, 21, 57-71, <DOI>.
- Coşkun, S., Polat, O., Kara, B. (2015) "Tedarikçi Seçiminde İşletmelerde Sistem Yönetimi ve Güvenliği Kriterlerine Dayalı Bir Karar Modeli ve Modelin Uygulaması", **Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi**, 21 (4), 134-144, <DOI>.
- Polat, O., Günther, H.-O. (2016) "The Impact of Seasonal Demand Fluctuations on Service Network Design of Container Feeder Lines", **Journal of Transportation and Logistics**, 1(1), 39-58, <DOI>, (Cites: 1).
- Mutlu, Ö., Ordu, M., Polat, O. (2016) "Düşük Riskli Yatırımcılar İçin Bireysel Emeklilik Sistemi İle Banka Vadeli Mevduat Sisteminin Karşılaştırılması", **Alphanumeric Journal**, 4 (2), 95-114, <DOI>.
- Polat, O. (2016) "Cooperative Variable Neighborhood Search for the Vehicle Routing Problem with Simultaneous Pickup and Delivery", **International Journal of Industrial Electronics and Electrical Engineering**, 4 (9), 137-140, <DOI>.
- Kalınkara, V., Özkaya, K., Polat, O. (2017) "Mobilya Sektörü Çalışanlarında Fiziksel Zorlanmanın Belirlenmesi", **Mühendislik Bilimleri ve Tasarım Dergisi**, 5, 1-12, <DOI>.
- Polat, O., Mutlu, Ö., Çakanel, H., Doğan, O., Özçetin, E., Şen, E. (2017) "Bir Mobilya Fabrikasında Çalışan İşçilerin Çalışma Duruşlarının REBA Yöntemi ile Analizi", **Mühendislik Bilimleri ve Tasarım Dergisi**, 5, 263-268, <DOI>.

#### BOOK CHAPTERS

- Kulak, O., O. Polat, Y. Şahin (2009) "Bir Üretim Sisteminin Simülasyon ve Değer Akışı Haritalandırma Yöntemleri İle Analizi", **Fabrika/Üretim Organizasyonlarının Yeniden Yapılandırılması ve Verimliliğin Artırılması Yoluyla Büyüme**, Nobel Yayınevi, Isparta, ISBN: 978-605-395-201-5, 79-98, <DOI>.
- Polat, O. (2017) "An Overview of Feeder Services in the Era of Mega Containerships". In L. Saglietto, & C. Cezanne (Eds.), **Global Intermediation and Logistics Service Providers** (pp. 317-339). Hershey, PA: IGI Global, ISBN: 978-152-252-133-4, <DOI>.

#### CONFERENCE PAPERS (ENGLISH)

- Kulak, O., O. Polat, H.-O. Günther (2008) "Performance Evaluation of Container Terminal Operations", **3rd German-Korean Workshop on Container Terminal Management**, University of Bremen, 27-31 August, Bremen, Germany.
- Kulak, O., O. Polat, H.-O. Günther (2009) "Simulation Based Layout Analyze of a Turkish Container Terminal", **ODYSSEUS 2009 - 4th International Workshop on Freight Transportation and Logistics**, 26-29 May, İzmir, Turkey.
- Kulak, O., M. E. Taner, O. Polat, M. U. Koyuncuoğlu (2011) "AGV Applications for Short Sea Container Terminals" **The 9th International Logistics & Supply Chain Congress**, 27-29 October, İzmir, Turkey.

- Koyuncuoğlu, M.U., O. Kulak, O. Polat, M. E. Taner (2012) "A Novel Approach For Effective Solution of Yard Crane Scheduling at Seaport Container Terminals" **2nd International Conference on Logistics and Maritime Systems**, 22-24 August, Bremen, Germany, pp 69-78.
- Taner, M.E., O. Kulak, O. Polat, M. U. Koyuncuoğlu (2012) "Analysis of Various Dispatching Strategies at Short Sea Container Terminals" **2nd International Conference on Logistics and Maritime Systems**, 22-24 August, Bremen, Germany, pp 251-260.
- Polat, O., O. Kulak, H.-O. Günther (2012) "An Adaptive Neighborhood Search Approach for VRPSPDTL" **2nd International Conference on Logistics and Maritime Systems**, 22-24 August, Bremen, Germany, pp 429-438.
- Polat, O., H.-O. Günther, O. Kulak (2012) "The Containership Feeder Network Design Problem: The New Izmir Port as Hub in the Black Sea" **2nd International Conference on Logistics and Maritime Systems**, 22-24 August, Bremen, Germany, pp 347-356.
- Polat, O., O. Kulak, H.-O. Günther (2013) "Feeder Service Network Design Under Unstable Demand Environments" **3th International Conference on Logistics and Maritime Systems**, 12-14 September, Singapore, Singapore.
- Polat, O., O. Mutlu, E. Özgörmüş (2015) "A Goal Programming Model for Assembly Line Balancing Problem Type 2 Under Workload Constraint", **The 2015 Northeast Decision Sciences Conference**, March 20-22, Cambridge / MA, USA
- Polat, O., Kalayci, C.B. (2016) "Ergonomic Risk Assessment of Workers in Garment Industry", **Eight International Conference on Textile Science & Economy VIII**, May 16-21, Zrnanjanin, Sarbia.
- Polat, O., Özkaya, K., Kalınkara, V. (2016) "Physical Workload Assessment of Workers in Furniture Industry Using the OWAS Method", **Second International Furniture Congress**, October 13-15, Mugla, Turkey.
- Polat, O. (2016) "Cooperative Variable Neighborhood Search for the Vehicle Routing Problem With Simultaneous Pickup and Delivery", **The 76th IIER International Conference**, July 20, Tokyo, Japan.
- Polat, O., Özgür Polat, L., Aydın, S., Kalaycı, C.B. (2017) "A Parallel Variable Neighborhood Search Based Solution Approach To Design The Service Network For A Beverage Distribution Company", **The 15th International Logistics and Supply Chain Congress**, 19-20 October 2017, İstanbul, Turkey.
- Polat, O., Ünal, Ö.F., Özgür Polat, L., Güngör, A. (2017) "An Integrated Forward-Reverse Logistics Network Design For Electrolytic Copper Conductor Reel Distribution", **The 15th International Logistics and Supply Chain Congress**, 19-20 October 2017, İstanbul, Turkey.

#### CONFERENCE PROCEEDINGS (ENGLISH)

- Polat, O., O. Kulak, H.-O. Günther, (2010) "Short-Term Routing and Transportation Planning in Spoke Networks in the Black Sea Region", **The 1st International Conference on Logistics and Maritime Systems**, 15-17 September, Busan, South Korea.
- Polat, O., O. Kulak, M.E. Taner, H.-O. Günther (2010) "Effect of Resource Allocation Rules in Different Layout Types of Seaport Container Terminals", **24th European Conference on Operational Research**, 11-14 July, Lisbon, Portugal.
- Polat, O., O. Kulak, H.-O. Günther (2011) "A Monte Carlo Simulation Based Stochastic Forecasting Frame: A Case Study of Containerized Trade of Turkish Ports" **12th International Symposium on Econometrics Operations Research and Statistics**, 26-28 May, Denizli, Turkey.
- Durak, Z. T., Ö. Mutlu, O. Polat (2012) "A Mathematical Model To Improve City Transportation by Using Flexible Work Hour Approach" **25th Conference of European Chapter on Combinatorial Optimization (ECCO 2012)**, 26 - 28 April, Antalya, Turkey.
- Koyuncuoğlu, M.U., O. Kulak, O. Polat, M. E. Taner (2012) "Yard Crane Scheduling by Using a Genetic Algorithm at Seaport Container Terminals" **25th European Conference on Operational Research**, 8-11 July, Vilnius, Lithuania.
- Özgür, L., S. Çoşkun, A. Güngör, O. Polat (2012) "Green Supplier Network Design Based on Customer Segmentation" **25th European Conference on Operational Research**, Vilnius, Lithuania, 8-11 July, Vilnius, Lithuania.
- Polat, O., O. Kulak, H.-O. Günther (2012) "On Solving the Feeder Containership Network Design Problem via Metaheuristic Approaches" **25th European Conference on Operational Research**, 8-11 July, Vilnius, Lithuania.
- Polat, O., O. Kulak, M.E. Taner, H.-O. Günther (2012) "The Impact of the Seasonal Demand Fluctuation on the Containership Routing Problem" **2nd International Conference on Logistics and Maritime Systems**, 22-24 August, Bremen, Germany.
- Güngör, A., O. Çapraz, O. Polat (2013) "Simulation Based Evaluation of E-Waste Disassembly Layouts" **26th European Conference on Operational Research**, 1-4 July, Rome, Italy.
- Coşkun, S., L. Özgür, O. Polat, A. Güngör, (2013) "A Multi-Objective Goal Programming for Green Supplier Transportation Network Design Based on Customer Segmentation" **3th International Conference on Logistics and Maritime Systems**, 12-14 September, Singapore, Singapore.
- Polat, O., Kalaycı, C.B., Günther, H.-O. (2014) "A Novel Solution Approach for the Feeder Containership Routing Problem", **2nd Annual International Conference on Industrial, Systems and Design Engineering**, 23-26 June 2014, Athens, Greece.



- Özgür Polat, L., Coskun, S., Polat, O., Güngör, A. (2014) "Green Supply Chain Network Design Considering Expectations of Customers and Retailer ", **2nd Annual International Conference on Industrial, Systems and Design Engineering**, 23-26 June 2014, Athens, Greece.
- Kalaycı, C.B., Polat, O., Mutlu, Ö. (2014) "The Vehicle Routing Problem with Simultaneous Pickup and Delivery Based on Speed Limit", **2nd Annual International Conference on Industrial, Systems and Design Engineering**, 23-26 June 2014, Athens, Greece.
- Polat, O., Kalaycı, C.B., Ozgur Polat, L., Mutlu, O. (2017) "Variable Neighborhood Search for the Heterogeneous Fixed Fleet Vehicle Routing Problem", **The International Conference on Engineering Technology and Innovation**, 22-26 March 2017, Sarajevo, Bosnia and Herzegovina.
- Kalaycı, C.B., Ertenlice, O., Polat, O., (2017) "Variable Neighborhood Search for Portfolio Optimization", **The International Conference on Engineering Technology and Innovation**, 22-26 March 2017, Sarajevo, Bosnia and Herzegovina.
- Sahin, Y., Akyer, H., Taskiner, T., Polat, O. (2017) "A Mathematical Model for Allocation and Distribution of Humanitarian Relief to Disaster Area", **The International Conference on Engineering Technology and Innovation**, 22-26 March 2017, Sarajevo, Bosnia and Herzegovina.
- Polat, O. (2017) "Cooperative Variable Neighborhood Search for the Vehicle Routing Problem with Pickup and Delivery", **Optimization 2017**, 6-8 September 2017, Lisboa, Portugal.
- Özgür Polat, L., Polat, O., Kalaycı, C.B., Aydın, S. (2017) "A variable neighborhood search based solution approach for designing service network of beverage distribution", **Optimization 2017**, 6-8 September 2017, Lisboa, Portugal.

#### CONFERENCE PAPERS (TURKISH)

- Kahya, E., O. Polat (2005) "Bir işletmede Oranlarla İşgücü Verimlilik Yönetim Sistemi Tasarımı", **5. Ulusal Endüstri-İşletme Mühendisliği Kurultayı**, 9-10 Aralık, Ereğli, Zonguldak.
- Kulak, O., O. Polat, Y. Şahin (2008) "Bir Üretim Sisteminde Değer Akışı Haritası Oluşturma ve Simülasyon Uygulaması", **1. Endüstri Mühendisliği Çalıştayı**, 26 Mayıs, Süleyman Demirel Üniversitesi, Isparta.
- Mutlu, Ö., O. Polat (2009) "Montaj Hattı İşçi Atama ve Dengeleme Probleminin Genetik Algoritmalar ile Çözümü" **9. Ulusal Üretim Araştırmaları Sempozyumu**, 15-17 Ekim, Eskişehir Osmangazi Üniversitesi, Eskişehir.
- Kulak, O., Ö. Elver, O. Polat (2009) "Konteynır Terminali Stok Alanı Yerleşim Düzenlerinin Simülasyon ile Analizi", **29. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 22-24 Haziran, Bilkent Üniversitesi, Ankara.
- Kulak, O., M. E. Taner, O. Polat, (2009) "Bir Konteynır Terminalinde Taşıma Operasyonlarının Simülasyon ile Analizi", **29. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 22-24 Haziran, Bilkent Üniversitesi, Ankara.
- Kulak, O. O. Polat, M.E. Taner, Y. Şahin, (2010) "Yerleşim Düzenlemelerinin Konteynır Terminal Performansına Etkisi", **10. Ulusal Üretim Araştırmaları Sempozyumu**, 16-18 Eylül, Girne Amerikan Üniversitesi, Girne, Kıbrıs, pp 362-373.
- Koyuncuoğlu, M.U., O. Polat, M.E. Taner, O. Kulak (2011) "Dolgu Tipi Konteynır Terminalleri İçin AGV Dağıtım Uygulamaları", **31. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, Sakarya Üniversitesi, Sakarya, pp 16-26.
- Taner, M.E., O. Kulak, O. Polat, Koyuncuoğlu, M.U. (2012) "Dolgu Tipi Konteynır Terminalleri İçin Agv Dağıtım Stratejileri", **12. Ulusal Üretim Araştırmaları Sempozyumu**, 27-29 Eylül, Gediz Üniversitesi, İzmir, pp 553-562.
- Supçiller, A.A., O. Polat, Ö. Mutlu (2012) "Montaj Hattı İşçi Atama Ve Dengeleme Probleminin Çözümü İçin Hibrit Bir Yaklaşım", **12. Ulusal Üretim Araştırmaları Sempozyumu**, 27-29 Eylül, Gediz Üniversitesi, İzmir, pp 835-840.
- Koyuncuoğlu, M.U., O. Kulak, O. Polat, M.E. Taner (2012) "Konteyner Terminallerindeki İstif Vinçlerinin Sezgisel Algoritmalar Kullanılarak Çizelgelenmesine Yeni Bir Yaklaşım", **12. Ulusal Üretim Araştırmaları Sempozyumu**, 27-29 Eylül, Gediz Üniversitesi, İzmir, pp 891-900.
- Kulak, O., Polat, O., Taner, M.E., Kıyat, S. (2015) "Denizli'deki Öncelikli Sektörlerin AR-GE ve İnovasyon Olgunluk Düzeylerinin Karşılaştırılması" **15. Üretim Araştırmaları Sempozyumu**, 14-16 Ekim, Ege Üniversitesi, İzmir, pp 635-643.

#### CONFERENCE PROCEEDINGS (TURKISH)

- Polat, O., H.-O. Günther, O. Kulak (2011) "Süre Limitli Eş Zamanlı Topla-Dağıt Araç Rotalama Problemi Uygulaması: Besleyici Konteynır Gemisi Dağıtım Problemi", **31. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, pp 42, Sakarya Üniversitesi, Sakarya, Turkey.
- Durak, Z.T., Ö. Mutlu, O. Polat, H. Akyer (2012) "Kademeli Mesai Saati Yaklaşımı İle Şehir İçi Ulaşımın İyileştirilmesi Üzerine Bir Matematiksel Model", **32. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 20-22 Haziran, Doğu Üniversitesi, İstanbul, Turkey.
- Supçiller, A. A., O. Polat, Ö. Arioğul (2014) "Bir Montaj Hattı Performansının Değer Akış Haritalama ve Simülasyon Yardımı İle İyileştirilmesi", **15th International Symposium on Econometrics, Operations Research and Statistics**, 22-25 May 2014, Isparta, Turkey.

- Baysal, I., Ö. Mutlu, L. Özgür Polat, O. Polat (2014) "Yalın Araçlarla Bir Hastanenin Randevu Sisteminin Yeniden Düzenlenmesi", **15th International Symposium on Econometrics, Operations Research and Statistics**, 22-25 May, Isparta, Turkey.
- Polat, O., Y. Yılmaz, O. Kulak (2014), "Bozulabilir Gıdaların Dağıtılması İçin Topla&Dağıt Temelli Bir Matematiksel Model", **15th International Symposium on Econometrics, Operations Research and Statistics**, 22-25 May, Isparta, Turkey.
- Coşkun, S., B. Kara, Y. Yılmaz, O. Polat (2014), "Balanced Scorecard Tabanlı ve Sistem Güvenliği Esaslı Tedarikçi Seçimi İçin Bir Model Önerisi ve Uygulaması", **15th International Symposium on Econometrics, Operations Research and Statistics**, 22-25 May, Isparta, Turkey.
- Polat, O., Mutlu, Ö., Özgörmüş, E. (2014) "İş Yükü Kısıtı Altında Tip-2 Montaj Hattı Dengeleme Problemi", **20. Ulusal Ergonomi Kongresi**, 26-28 Eylül, Ankara Üniversitesi, Ankara, Turkey.
- Polat, O., Mutlu, Ö., Kalaycı, C.B. (2015) "Sıra Bağımlı Ergonomik Montaj Hattı Dengeleme Problemi", **21. Ulusal Ergonomi Kongresi**, 02-04 Ekim, Isparta, Turkey.
- Polat, O. (2016) "Topla Dağıt Araç Rotalama Problemleri İçin Bir Paralel Değişken Komşuluk Arama Algoritması Uygulaması", **36. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 13-15 Temmuz, Yaşar Üniversitesi, İzmir, Turkey.
- Polat, O., Doğan, O., Özçetin, E., Mutlu, Ö. (2016) "Mobilya Montajında Çalışan İşçilerin Çalışma Duruşlarının QEC (Hızlı Maruziyet Değerlendirme) Yöntemi İle Analizi", **22. Ulusal Ergonomi Kongresi**, 06-08 Ekim, Pamukkale Üniversitesi, Denizli, Turkey.
- Mutlu, Ö., Çakanel, H., Şen, E., Polat, O. (2016) "Mobilya Fabrikalarında Üst Yüzey İşlemlerinde Çalışan İşçilerde Çalışma Duruşları Zorlanma Analizi", **22. Ulusal Ergonomi Kongresi**, 06-08 Ekim, Pamukkale Üniversitesi, Denizli, Turkey.
- Kalınkara, V., Özkaya, K., Polat, O. (2016) "Mobilya Sektörü Çalışanlarında Fiziksel Zorlanmanın Belirlenmesi", **22. Ulusal Ergonomi Kongresi**, 06-08 Ekim, Pamukkale Üniversitesi, Denizli, Turkey.
- Polat, O., Yurdakul, S. (2017) "Bir Otomotiv Firması Tedarik Ağı İçin Milk-Run Araç Rota Optimizasyonu", **37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, Yıldız Teknik Üniversitesi, İstanbul, Turkey.
- Coşkun, S. Polat, O., Önder, E. (2017) "Yönetim Sistemlerinde Risk Analizi Odaklı Uygulamaların İşletmelerin Sürdürülebilirliğine Katkısı ve Tekstil Sektörü Özelinde Çevresel Boyutta Değerlendirilmesi", **37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, Yıldız Teknik Üniversitesi, İstanbul, Turkey.
- Mutlu, Ö., Özbay, T., Polat, O. (2017) "Değişken Komşuluk Arama Yöntemi ile Evde Bakım Hizmetlerinin Çizelgelenmesi", **37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, Yıldız Teknik Üniversitesi, İstanbul, Turkey.
- Polat, O., Çapraz, O., Güngör, A. (2017) "Belirsizlik Altında Atık Elektrikli ve Elektronik Eşyaların (AEEE) Geri Dönüşüm Operasyonlarının Modellenmesi ve Optimizasyonu", **37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi**, 05-07 Temmuz, Yıldız Teknik Üniversitesi, İstanbul, Turkey.
- Bulut, A., Mutlu, Ö., Özkaya, K., Polat, O. (2017) "Tel İmalatı Yapan Bir Firma İçin Ergonomik İyileştirme ve Tesis Tasarımı Önerileri", **23. Ulusal Ergonomi Kongresi**, 26-28 Ekim, Çukurova Üniversitesi, Adana, Turkey.
- Özkaya, K., Polat, O., Çakanel, H., Kalınkara, V. (2017) "Mobilya Montaj Hattında Çalışan Bireylerde Bedensel Zorlanma ve Eylemsel Duruş İlişkisi", **23. Ulusal Ergonomi Kongresi**, 26-28 Ekim, Çukurova Üniversitesi, Adana, Turkey.

#### SUMMER/WINTER SCHOOL

- 09/2011 **Summer School on Scheduling, Marmara University, Yalova, Turkey**

#### REFEREED ARTICLES FOR THE JOURNALS (SCI, SCI-E, SSCI, AHCI, ESCI)

- 03/2012 Computers & Industrial Engineering (SCI-E)
- 06/2012 Production Planning and Control (SCI-E)
- 07/2012 Computers & Operations Research (SCI-E)
- 12/2012 Computers & Operations Research (SCI-E)
- 04/2013 Expert Systems with Applications (SCI-E)
- 04/2013 International Journal of Production Research (SCI)
- 06/2013 Computers & Operations Research (SCI-E)
- 12/2013 Computers & Operations Research (SCI-E)
- 07/2014 International Journal of Production Research (SCI)
- 08/2014 International Journal of Production Research (SCI)
- 10/2014 OMEGA - The International Journal of Management Science (SCI)
- 11/2014 Computers & Industrial Engineering (SCI-E)
- 12/2014 International Journal of Production Research (SCI)
- 01/2015 European Journal of Operational Research (SCI-E)
- 02/2015 Computers & Industrial Engineering (SCI-E)

- 02/2015 Computers & Industrial Engineering (SCI-E)
- 03/2015 International Journal of Production Research (SCI)
- 08/2015 Transportation Research Part E: Logistics and Transportation Review (SCI-E)
- 04/2016 European Journal of Operational Research (SCI-E)
- 05/2016 Computers & Industrial Engineering (SCI-E)
- 06/2016 Computers & Industrial Engineering (SCI-E)
- 07/2016 Computers & Operations Research (SCI-E)
- 09/2016 Engineering Optimization (SCI-E)
- 10/2016 Journal of the Operational Research Society (SCI-E)
- 01/2017 Maritime Policy & Management (SCI-E)
- 01/2017 Computers & Industrial Engineering (SCI-E)
- 03/2017 Computers & Industrial Engineering (SCI-E)
- 03/2017 International Journal of Production Research (SCI)
- 04/2017 Computers & Operations Research (SCI-E)
- 08/2017 Computers & Industrial Engineering (SCI-E)

#### REFEREED ARTICLES FOR THE JOURNALS (OTHER INDEXES)

- 01/2012 Pamukkale University - Journal of Engineering Sciences
- 08/2012 Pamukkale University - Journal of Engineering Sciences
- 10/2012 Pamukkale University - Journal of Engineering Sciences
- 10/2013 International Journal of Operational Research
- 03/2014 International Journal of Operational Research
- 03/2014 International Journal of Industrial and Systems Engineering
- 04/2014 International Journal of Industrial and Systems Engineering
- 09/2014 Pamukkale University - Journal of Engineering Sciences
- 11/2014 Pamukkale University - Journal of Engineering Sciences
- 01/2015 Süleyman Demirel University - Journal of Engineering Sciences and Design
- 02/2015 Pamukkale University - Journal of Engineering Sciences
- 05/2015 Journal of Engineering and Technology Research
- 09/2015 Pamukkale University - Journal of Engineering Sciences
- 04/2016 Uludağ University - Journal of the Faculty of Engineering
- 05/2016 Pamukkale University - Journal of Engineering Sciences
- 07/2016 Mehmet Akif Ersoy University - Journal of Social Sciences Institute
- 10/2016 Süleyman Demirel University - Journal of Engineering Sciences and Design
- 10/2016 Pamukkale University - Journal of Engineering Sciences
- 11/2016 Pamukkale University - Journal of Engineering Sciences
- 12/2016 Pamukkale University - Journal of Engineering Sciences
- 01/2017 Süleyman Demirel University - Journal of Engineering Sciences and Design
- 03/2017 Mehmet Akif Ersoy University - Journal of Social Sciences Institute
- 04/2017 Niğde Ömer Halisdemir University - Journal of Engineering Sciences
- 07/2017 Eskişehir Osmangazi University - Journal of Engineering and Architecture Faculty
- 08/2017 Mehmet Akif Ersoy University - Journal of Social Sciences Institute

#### COMMITTEE ROLES

- **VI. National Meeting of Industrial Engineering**, Organizing Committee, Bursa/Turkey, December 2007
- **XXV. Meeting of Industrial Engineering Students**, Organizing Committee, Denizli/Turkey, February 2008
- **XXII. National Ergonomics Conference**, Steering Committee, Denizli/Turkey, October 2016
- **International Conference on Big Data, Advanced Wireless and Communication**, Program Committee, Blagoevgrad/Bulgaria, November 2016
- **International Conference on Environment, Energy and Materials**, Technical Program Committee, Zhangjiajie/China, December 2016
- **III. International Conference on Economics and Management Engineering**, Technical Program Committee, Wuhan/China, March 2016
- **IV. International Conference on Management Science and Management Innovation**, Technical Program Committee, Nanjing/China, April 2017
- **International Conference on Economic Development and Enterprise Innovation**, Technical Program Committee, Nanjing/China, April 2017
- **VIII. Maintenance Technology Congress and Exhibition**, Steering Committee, Denizli/Turkey, September 2017
- **XI. National Meeting of Industrial Engineering**, Organizing Committee, İstanbul/Turkey, November 2017

## EDITORIAL ACTIVITIES

- **Endüstri İşletme Mühendisliği Meslek Dalı Ana Komisyonu (EİM-MEDAK) Bülteni**, Editorial Board, TMMOB Makine Mühendisleri Odası, October 2007- May 2008
- **Bülten**, Editor, TMMOB Makina Mühendisleri Odası Denizli Şubesi, January 2016 - ....
- **American Journal of Mechanical and Industrial Engineering**, Editorial Board, Science Publishing Group, April 2016 – March 2017
- **Pamukkale University Journal of Engineering Sciences (PAJES)**, Area Editor, Pamukkale University, May 2016 - ....
- **Endüstri Mühendisliği**, Editorial Board, TMMOB Makina Mühendisleri Odası, January 2017 - ....
- **Journal of Engineering Sciences and Design (JESD)**, Ergonomics Special Issue Editor, Süleyman Demirel University, May 2017

## AWARDS & GRANTS

- **Young Entrepreneur Improvement Program Award**, KOSGEB, 2005
- **Project Scholarship**, TÜBİTAK, 2006
- **Erasmus Scholarship**, (TU Berlin) European Union, 2007-2008
- **Support for Scientific Activities**, (Bremen/Germany) TÜBİTAK, 2008
- **Doctorate Scholarship**, DAAD, 2009-2013
- **Scientific Activity Support**, (Busan/Korea) DFG, 2010
- **Publication Encouragement Award**, TÜBİTAK, 2012
- **Support for Scientific Activities**, (Vilnius/Lithuania) TU Berlin, 2012
- **Support for Scientific Activities**, (Bremen/Germany) TU Berlin, 2012
- **Scientific Study Scholarship**, Ministry of Transport, Maritime Affairs and Communications, Turkey, 2013
- **Support for Scientific Activities**, (Singapore/Singapore) TU Berlin, 2013
- **Support for Scientific Activities**, (Athens/Greece) Pamukkale University, 2014
- **Publication Encouragement Award**, TÜBİTAK, 2014
- **Publication Encouragement Award**, TÜBİTAK, 2015
- **Support for Scientific Activities**, (Boston/USA) TÜBİTAK, 2015
- **Publication Encouragement Award**, TÜBİTAK, 2015
- **Publication Encouragement Award**, TÜBİTAK, 2016
- **Publication Encouragement Award**, TÜBİTAK, 2016
- **Publication Encouragement Award**, TÜBİTAK, 2016
- **Support for Scientific Activities**, (Tokyo/Japan) Pamukkale University, 2016
- **Support for Scientific Activities**, (Sarajevo/Bosnia and Herzegovina) Pamukkale University, 2017
- **Support for Scientific Activities**, (Lisboa/Portugal) Pamukkale University, 2017
- **Publication Encouragement Award**, TÜBİTAK, 2017
- **Publication Encouragement Award**, TÜBİTAK, 2017

## MEMBERSHIPS

- (2005-....) Member of **Chamber of Mechanical and Industrial Engineers (MMO)**, Turkey
- (2005-....) Member of **National Quality Foundation (KALDER)**, Turkey
- (2008-....) Member of **DAAD Alumni**, Germany
- (2011-....) Member of **Operational Research Society (YAD)**, Turkey
- (2013-....) Member of **Logistics Association (LODER)**, Turkey
- (2014-....) Member of **Decision Sciences Institute (DSI)**, USA
- (2015-....) Member of **The Institute for Operations Research and the Management Sciences (INFORMS)**, USA
- (2015-....) Member of **Production and Operation Management Society (POMS)**, USA
- (2015-....) Member of **Industrial Engineering & Operations Management Society (IEOM)**, USA