

Prof. SEROL BULKAN

Personal Information

Email: sbulkan@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/sbulkan>

Biography

Dr. Serol Bulkan İstanbul Teknik Üniversitesi İşletme Mühendisliği bölümünden lisans derecesini 1986 ve yüksek lisans derecesini 1989 yılında aldıktan sonra Florida Institute of Technology'de Operations Research bölümünden yüksek lisans derecesini 1991 yılında ve Cleveland State University'de Industrial Engineering bölümünden doktora derecesini 1989 yılında almıştır. Şu anda Marmara Üniversitesi Endüstri Mühendisliği bölümünde Endüstri Mühendisliği AnaBilim dalında öğretim üyesi olarak görev yapmaktadır.

Education Information

Doctorate, Cleveland State University, Fenn College of Engineering, Industrial Engineering, United States Of America 1992 - 1999

Postgraduate, Florida Institute of Technology, Operations Research, United States Of America 1990 - 1992

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, İşletme Mühendisliği, Turkey 1986 - 1989

Undergraduate, İstanbul Teknik Üniversitesi, İşletme Fakültesi, İşletme Mühendisliği Bölümü, Turkey 1982 - 1986

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, A Genetic Algorithm Approach to Job Shop Scheduling, Cleveland State University, Industrial Engineering, 1998

Postgraduate, İller ve bölgeler itibariyle Türkiye'xxde gelir dağılımı analizi (1975-1986), Istanbul Technical University, Fen Bilimleri Enstitüsü, İşletme Mühendisliği, 1989

Research Areas

Industrial Engineering , Optimization Theory and Methods, Production Planning and Control, Supply Chain and Logistics Management

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2014 - Continues

Assistant Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2001 - 2014

Research Assistant, Galatasaray Üniversitesi, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, 1998 -

Academic and Administrative Experience

Marmara University, Faculty of Engineering, Industrial Engineering, 2015 - 2018

Marmara University, Faculty of Engineering, Industrial Engineering, 2005 - 2012

Advising Theses

BULKAN S., Bulkan S., Statistical arbitrage with fuzzy logic, Doctorate, M.Bayram(Student), 2019

BULKAN S., Developing a framework for home healthcare routing and scheduling system and a heuristic solution approach, Doctorate, M.Erdem(Student), 2018

BULKAN S., A new multi-objective model for integrated supply chain scheduling problem in flexible job shop environment, Doctorate, Z.CEYLAN(Student), 2018

BULKAN S., Conflicting weighted cost minimisation heuristic method for an assembly linescheduling problem, Doctorate, A.KARABULUT(Student), 2018

BULKAN S., Sales force allocation problem: A case study in banking sector, Postgraduate, B.BEGÜM(Student), 2017

AĞAOĞLU M., BULKAN S., A metaheuristic algorithm to elasticity based shelf space allocation problem, Doctorate, A.HANDE(Student), 2016

BULKAN S., A heuristic solution approach for a resource management problem at news agencies, Postgraduate, A.EYÜP(Student), 2016

BULKAN S., Developing a model of airline flight and maintenance operations using systems dynamics approach: An application in THY technic, Doctorate, A.TOKGÖZ(Student), 2015

BULKAN S., A comprehensive timetabling at Marmara University, Doctorate, A.GÜLCÜ(Student), 2014

BULKAN S., A hybrid solution for makespan minimization in identical parallel machines with release time constraint, Doctorate, S.SAMUR(Student), 2013

Bulkan S., Intelligent ways of detecting fraud, Doctorate, Y.ŞAHİN(Student), 2013

BULKAN S., Bulkan S., Genetic algorithm based solution approach for TDVRP, Postgraduate, M.Selçuk(Student), 2013

BULKAN S., A genetic algorithm based solution approach for TDVRP, Postgraduate, M.SELÇUK(Student), 2013

BULKAN S., Workforce planning for seasonal demands, Postgraduate, Y.ERDEM(Student), 2011

BULKAN S., A research on bog game based on the game theory, Postgraduate, E.CAN(Student), 2011

BULKAN S., Solution of bicriteria open shop scheduling problem with genetic algorithm and tabu search and detailed analysis of results, Postgraduate, B.Türkelí(Student), 2010

BULKAN S., Solution of bicriteria open shop scheduling problem with genetic algorithm and tabu search and detailed analysis of results, Postgraduate, B.TÜRKELÍ(Student), 2010

BULKAN S., A heuristic solution algorithm to quadratic assignment problem, Postgraduate, A.HANDE(Student), 2010

BULKAN S., A new solution method for the capacitated traveling purchaser problem, Postgraduate, S.SERT(Student), 2010

BULKAN S., Heuristic approaches for the printed circuit board manufacturing problem, Doctorate, Ö.KULAK(Student), 2009

BULKAN S., User needs analysis: A case study for simulation based training in TCDD, Postgraduate, D.AĞIR(Student), 2009

BULKAN S., Relationship between it investments and productivity, Postgraduate, S.OSMAN(Student), 2009

BULKAN S., Using ant colony optimization to find an optimum solution for resource constrained project scheduling problem, Postgraduate, S.ALVER(Student), 2009

BULKAN S., A new heuristic approach to TSP, Doctorate, K.A.(Student), 2008

BULKAN S., A new heuristic algorithm for minimizing the makespan on identical parallel machines, Doctorate, S.Öztürk(Student), 2008

BULKAN S., A new heuristic algorithm for minimizing the makespan on identical parallel machines, Doctorate,

S.ÖZTÜRK(Student), 2008

BULKAN S., Innovative internal control and consulting system design, Postgraduate, R.DÜNDAR(Student), 2007

BULKAN S., Decision support methods for distribution channel selection in SCM, Postgraduate, E.KARABIYIK(Student), 2007

BULKAN S., Path based priority rule for resource constrained project scheduling problems, Postgraduate, G.HARUN(Student), 2006

Bulkan S., Sennaroğlu B., Multi-item inventory ordering model from a single source, Postgraduate, N.EZER(Student), 2006

Bulkan S., Comparison of genetic algorithm and particle swarm optimization algorithm for bicriteria permutation flowshop scheduling problem, Doctorate, Ö.UYSAL(Student), 2006

BULKAN S., An approach of constraint-based scheduling for a construction firm, Postgraduate, A.ÇALIŞIR(Student), 2006

BULKAN S., BALOĞLU K. A. , Development of a procurement model to enhance supply chain management for manufacturing and non-manufacturing firms purchasing from China, Postgraduate, M.HACISALİHOĞLU(Student), 2006

BULKAN S., Reengineering of materials management system in a plant meeting both probabilistic demand and contracted orders, Doctorate, M.KARAASLAN(Student), 2005

BULKAN S., Reengineering of materials management system in a plant meeting both probabilistic demand and contracted orders, Doctorate, M.Karaaslan(Student), 2005

BULKAN S., Resource constrained scheduling of multiple projects via enhanced positional weight method, Postgraduate, S.ÇİÇEK(Student), 2005

BULKAN S., Analyzing and evaluating priority rules for job shop scheduling problems, Postgraduate, M.BATUHAN(Student), 2004

BULKAN S., Generating data base about activity times of construction project, Postgraduate, E.Başar(Student), 2004

BULKAN S., Database usage over GSM through SMS, Postgraduate, U.KARAKOÇ(Student), 2004

BULKAN S., Generating data base about activity times of construction project, Postgraduate, E.BAŞAR(Student), 2004

BULKAN S., Effects of build to order systems on automotive value chain, Postgraduate, T.SİLEK(Student), 2004

BULKAN S., Determining the main supply and maintenance points for gendarmerie general command, Postgraduate, A.OSMAN(Student), 2003

BULKAN S., Chemical product life-cycle in e-commerce, Postgraduate, D.ÖZDEMİR(Student), 2003

BULKAN S., Data mining methods and an application, Postgraduate, B.KARACA(Student), 2003

BULKAN S., Internet and its effects on business process, Postgraduate, M.DEVECİ(Student), 2003

BULKAN S., Internet and its effects on business processes, Postgraduate, M.Deveci(Student), 2003

BULKAN S., Designing a customer relationship management model for an insurance company, Postgraduate, E.AKKUŞ(Student), 2002

BULKAN S., An Analytic hierarchy process based decision model for comparing the performance of Turkish self-propelled guns with the Russians and determining the modernization of self propelled guns, Postgraduate, Y.KARŞIL(Student), 2002

BULKAN S., A Simulation model for anti-tank defence plan in a mechanized infantry battalion in the Turkish Army, Postgraduate, M.KOCA(Student), 2002

BULKAN S., E-commerce modelling with business process reengineering approach, Postgraduate, Ç.ÖZGÜR(Student), 2001

BULKAN S., Plant location decisions and land-use restrictions: The Turkish case, Postgraduate, A.ÜNAL(Student), 2001

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Centrality based solution approaches for median-type incomplete hub location problems**
ÖZTÜRK C., TUZKAYA G., BULKAN S.
Computers and Industrial Engineering, vol.156, 2021 (Journal Indexed in SCI Expanded)
- II. **An Integrated Solution Approach for Flow Shop Scheduling**
Karacan I., Karacan I., ŞENVAR Ö., BULKAN S.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.28, no.3, pp.786-795, 2021 (Journal Indexed in SCI)

- III. **Water and energy minimization in industrial processes through mathematical programming: A literature review**
 Duhbaci T. B. , ÖZEL S., BULKAN S.
 JOURNAL OF CLEANER PRODUCTION, vol.284, 2021 (Journal Indexed in SCI)
- IV. **A coordinated scheduling problem for the supply chain in a flexible job shop machine environment**
 CEYLAN Z., Tozan H., BULKAN S.
 OPERATIONAL RESEARCH, 2021 (Journal Indexed in SCI)
- V. **Prediction of medical waste generation using SVR, GM (1,1) and ARIMA models: a case study for megacity Istanbul**
 CEYLAN Z., BULKAN S., ELEVELİ S.
 JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.18, no.2, pp.687-697, 2020 (Journal Indexed in SCI)
- VI. **A research survey: heuristic approaches for solving multi objective flexible job shop problems**
 Turkyilmaz A., ŞENVAR Ö., Unal I., BULKAN S.
 JOURNAL OF INTELLIGENT MANUFACTURING, vol.31, no.8, pp.1949-1983, 2020 (Journal Indexed in SCI)
- VII. **A Novel Approach Integrating Intuitionistic Fuzzy Analytical Hierarchy Process and Goal Programming for Chickpea Cultivar Selection under Stress Conditions**
 Karacan I., ŞENVAR Ö., Arslan O., EKMEKÇİ Y., BULKAN S.
 PROCESSES, vol.8, no.10, 2020 (Journal Indexed in SCI)
- VIII. **Multiprocessor open shop problem: literature review and future directions**
 Adak Z., Arıoğlu Akan M. Ö. , BULKAN S.
 Journal of Combinatorial Optimization, vol.40, no.2, pp.547-569, 2020 (Journal Indexed in SCI)
- IX. **Assessing the social sustainable supply chain indicators using an integrated fuzzy multi-criteria decision-making methods: a case study of Turkey**
 Yildizbasi A., Ozturk C., Efendioglu D., BULKAN S.
 ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, 2020 (Journal Indexed in SCI)
- X. **Algorithmic pairs trading with expert inputs, a fuzzy statistical arbitrage framework**
 Bayram M., Akat M., BULKAN S.
 JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.38, no.1, pp.697-707, 2020 (Journal Indexed in SCI)
- XI. **Integer Programming versus Constraint Programming: A Course Timetabling Case Study**
 BULKAN S., GÜLCÜ A.
 International Journal Of Industrial Engineering-Theory Applications And Practice, vol.26, pp.301-316, 2019 (Journal Indexed in SCI Expanded)
- XII. **Biomass Higher Heating Value Prediction Analysis by ANFIS, PSO-ANFIS and GA-ANFIS**
 Ceylan Z., Pekel E., Ceylan S., Bulkan S.
 GLOBAL NEST JOURNAL, vol.20, no.3, pp.589-597, 2018 (Journal Indexed in SCI)
- XIII. **Forecasting PM10 levels using ANN and MLR: A case study for Sakarya City**
 Ceylan Z., Bulkan S.
 GLOBAL NEST JOURNAL, vol.20, no.2, pp.281-290, 2018 (Journal Indexed in SCI)
- XIV. **A TWO-STAGE SOLUTION APPROACH FOR THE LARGE-SCALE HOME HEALTHCARE ROUTEING AND SCHEDULING PROBLEM**
 Erdem M., Bulkan S.
 SOUTH AFRICAN JOURNAL OF INDUSTRIAL ENGINEERING, vol.28, no.4, pp.133-149, 2017 (Journal Indexed in SCI)
- XV. **Capacity Management in Hotel Industry for Turkey**
 Efendioglu D., BULKAN S.
 HANDBOOK OF RESEARCH ON HOLISTIC OPTIMIZATION TECHNIQUES IN THE HOSPITALITY, TOURISM, AND TRAVEL INDUSTRY, pp.286-304, 2017 (Journal Indexed in SSCI)
- XVI. **A HEURISTIC APPROACH TO MINIMISING MAXIMUM LATENESS ON A SINGLE MACHINE**
 Calis B., Bulkan S., Tuncer F.
 SOUTH AFRICAN JOURNAL OF INDUSTRIAL ENGINEERING, vol.26, no.3, pp.41-53, 2015 (Journal Indexed in SCI)
- XVII. **A research survey: review of AI solution strategies of job shop scheduling problem**

- ÇALIŞ USLU B., BULKAN S.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.26, no.5, pp.961-973, 2015 (Journal Indexed in SCI)
- XVIII. **A hybrid algorithm for total tardiness minimisation in flexible job shop: genetic algorithm with parallel VNS execution**
Turkyilmaz A., BULKAN S.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.53, no.6, pp.1832-1848, 2015 (Journal Indexed in SCI)
- XIX. **A cost-sensitive decision tree approach for fraud detection**
Sahin Y., BULKAN S., DUMAN E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.15, pp.5916-5923, 2013 (Journal Indexed in SCI)
- XX. **A Comparative Analysis of Priority Rules fo Different Job Shop Scheduling Problem Classes**
AYHAN M. B. , BULKAN S.
Technics Technologies Education Management-Ttem, vol.8, pp.464-473, 2013 (Journal Indexed in SCI Expanded)
- XXI. **A comparison of genetic algorithms & tabu search for a course timetabling problem**
Gulcu A., KUZUCUOĞLU A. E. , BULKAN S.
TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM, vol.6, no.4, pp.930-938, 2011 (Journal Indexed in SCI)
- XXII. **A Comparison of Genetic Algorithm Tabu Search for A Course Timetabling Problem**
AYLA G., KUZUCUOĞLU A. E. , BULKAN S.
Technics Technologies Education Management-Ttem, vol.6, pp.930-938, 2011 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **İki Boyutlu Palet Yerleştirme Problemi İçin Metasezgisel Çözüm Yaklaşımı**
ÜNAL İ., GÖRGÜN H., BULKAN S.
Journal of Transportation and Logistics, vol.4, no.2, pp.79-90, 2019 (Other Refereed National Journals)
- II. **BÜTÜNLEŞİK TEDARİK ZİNCİRİ ÇİZELGELEME MODELLERİ: BİR LİTERATÜR TARAMASI**
CEYLAN Z., TOZAN H., BULKAN S.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.7, no.1, pp.182-195, 2019 (Refereed Journals of Other Institutions)
- III. **Integrated Supply Chain Scheduling Models: A Literature Review**
CEYLAN Z., BULKAN S., TOZAN H.
Journal of Engineering Sciences and Design, vol.7, pp.182-195, 2019 (Refereed Journals of Other Institutions)
- IV. **BANKACILIK SEKTÖRÜNDE SATIŞ GÜCÜ YERLEŞTİRME**
SEMERCİOĞLU B. B. , BULKAN S.
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.7, pp.624-633, 2018 (Other Refereed National Journals)
- V. **Modeling airline MRO operations using a systems dynamics approach: A case study of Turkish Airlines**
Tokgoz A., BULKAN S., ZAİM S., Delen D., Torlak N. G.
JOURNAL OF QUALITY IN MAINTENANCE ENGINEERING, vol.24, no.3, pp.280-310, 2018 (Journal Indexed in ESCI)
- VI. **Türkiye Ulaşım Kaynaklı Enerji İhtiyacının Hibrit ANFIS-PSO Metodu ile Tahmini**
CEYLAN Z., BULKAN S.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.18, 2018 (Other Refereed National Journals)
- VII. **CREATING A SAMPLE PERT MODEL FOR MASS HOUSING PROJECTS**
BAYLAN E. B. , BULKAN S.
ASIAN ACADEMIC RESEARCH JOURNAL OF MULTIDISCIPLINARY, vol.4, pp.82-95, 2017 (Refereed Journals of Other Institutions)
- VIII. **İki Aşamalı Kümeleme Analizi ile Bireysel Emeklilik Sektöründe Müşteri Profiline Değerlendirilmesi**
CEYLAN Z., GÜRSEV S., BULKAN S.
Bilişim Teknolojileri Dergisi, vol.10, pp.475-485, 2017 (Refereed Journals of Other Institutions)

- IX. **Drug Inventory Management of a Pharmacy using ABC and VED Analysis**
CEYLAN Z., BULKAN S.
Eurasian Journal of Health Technology Assessment, vol.2, pp.14-18, 2017 (Refereed Journals of Other Institutions)
- X. **A literature review on Home Healthcare Routing and Scheduling Problem**
ERDEM M., BULKAN S.
Eurasian Journal of Health Technology Assessment, vol.2, pp.19-32, 2017 (Other Refereed National Journals)
- XI. **Tek ve Çok Dönemli Envanter Kontrol Modelleri**
CEYLAN Z., BULKAN S., TOZAN H.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.5, pp.441-455, 2017 (Refereed Journals of Other Institutions)
- XII. **CONCEPTUAL OVERVIEW TO DISTRIBUTED MANUFACTURING SYSTEMS**
ŞENVAR Ö., BULKAN S.
International Journal of Information,Business and Management, vol.9, pp.41-52, 2017 (Refereed Journals of Other Institutions)
- XIII. **Conflicting Objectives in Assembly Line Scheduling Problems**
KARABULUT A., BULKAN S.
The International Journal of Engineering and Science, vol.6, pp.64-73, 2017 (Refereed Journals of Other Institutions)
- XIV. **An Application of Data Mining in Individual Pension Savings and Investment System**
CEYLAN Z., GÜRSEV S., BULKAN S.
European Journal of Science and Technology, 2017 (Refereed Journals of Other Institutions)
- XV. **A Heuristic Approach for a Shelf Space Allocation Problem**
EROL BİNGÜLER A. H. , BULKAN S., AĞAOĞLU M.
Journal of Military and Information Science, vol.4, no.1, pp.38-44, 2016 (Refereed Journals of Other Institutions)
- XVI. **A Heuristic Approach for Shelf Space Allocation Problem**
EROL BİNGÜLER A. H. , BULKAN S., AĞAOĞLU M.
Journal of Military and Information Science, vol.4, pp.38-44, 2016 (Refereed Journals of Other Institutions)
- XVII. **A Model for Check-Up Processes In Health Care Systems Using Genetic Algorithms**
EROL BİNGÜLER A. H. , TOZAN H., BULKAN S.
HEALTH TECHNOLOGY ASSESSMENT, vol.1, pp.1-11, 2016 (Refereed Journals of Other Institutions)
- XVIII. **An analytical Approach to Automotive Industry**
ÜLKÜ İ., BULKAN S., YÜKSEKTEPE F.
Journal of Aeronautics and Space Technologies, vol.8, pp.15-23, 2015 (Other Refereed National Journals)
- XIX. **New Variable Neighborhood Search Structure² for Travelling Salesman Problems**
EROL BİNGÜLER A. H. , BULKAN S.
British Journal of Mathematics & Computer Science, vol.6, pp.422-434, 2015 (Refereed Journals of Other Institutions)
- XX. **New Variable Neighborhood Search Structure for Travelling Salesman Problems**
EROL BİNGÜLER A. H. , BULKAN S.
British Journal of Mathematics & Computer Science, vol.6, pp.422-434, 2015 (Refereed Journals of Other Institutions)
- XXI. **Task Allocation and Skilled Worker Scheduling with Genetic Algorithm to Minimize Total Tardiness**
ALPER T., BULKAN S.
SCOTTISH JOURNAL OF ARTS, SOCIAL SCIENCES AND SCIENTIFIC STUDIES, vol.11, pp.109-123, 2013 (Refereed Journals of Other Institutions)
- XXII. **SHELF SPACE OPTIMIZATION USING METAHEURISTIC ALGORITHMS**
BİLSEL M., AYHAN M. B. , BULKAN S.
INTERNATIONAL JOURNAL OF INFORMATION, BUSINESS AND MANAGEMENT, vol.5, pp.210-217, 2013 (Refereed Journals of Other Institutions)
- XXIII. **Weapon Target Assignment with Combinatorial Optimization Technique**
ASIM T., BULKAN S.
INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ARTIFICIAL INTELLIGENCE, vol.2, pp.39-50, 2013

(Refereed Journals of Other Institutions)

- XXIV. **A Mixed Nonlinear Integer Programming Model for an Aggregate Production Planning Problem with Seasonal Demands**
ERDEM DEMİRTAŞ Y., BULKAN S.
SCOTTISH JOURNAL OF ARTS, SOCIAL SCIENCES AND SCIENTIFIC STUDIES, vol.10, pp.192-203, 2013 (Refereed Journals of Other Institutions)
- XXV. **Comparison of Genetic Algorithm and Particle Swarm Optimization for Bicriteria Permutation Flowshop Scheduling Problem**
UYSAL Ö., BULKAN S.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENT RESEARCH, vol.4, pp.159-175, 2008 (Refereed Journals of Other Institutions)
- XXVI. **Genetic Algorithm Based Estimation of the Elasticity of Substitution and Productivity Measures in a CES Production Function**
ULUSOY V., BULKAN S.
Ekonomi ve Yönetim Bilimleri Dergisi, vol.1, pp.98-113, 1999 (Other Refereed National Journals)

Books & Book Chapters

- I. **The multi-period home healthcare routing and scheduling problem: a cluster first- route second solution approach**
ERDEM M., BULKAN S.
in: Demand Forecasting and Order Planning in Supply Chains and Humanitarian Logistics, Atour Taghipour, Editor, IGI Global, pp.111-139, 2020
- II. **Gerçek Zamanlı Çizelgeleme**
KARACAN İ., KARACAN İ., BULKAN S.
in: Çağdaş Endüstri Mühendisliği, Ercan Öztemel, Editor, Papatya Yayıncılık Eğitim, İstanbul, pp.487-512, 2019
- III. **Obsolescence Managementfor Sustainment-DominatedMilitary Systems:Multiple Criteria Decision-MakingApproach Using Evolutionary Algorithms**
ÖZKAN B. E. , BULKAN S.
in: Operations Research for Military Organizations, Hakan Tozan, Mümtaz Karataş, Editor, IGI Global, Hershey, PA, pp.205-224, 2018
- IV. **Attrition Models and Applications**
KARACAN İ., KARACAN İ., BULKAN S.
in: Operations Research for Military Organizations, TOZAN HAKAN KARATAŞ MÜMTAZ, Editor, IGI Global, Hershey, PA, pp.131-154, 2018
- V. **Bearing-Only Target Motion Analysis**
AYTUN A., BULKAN S.
in: Operations Research for Military Organizations, Hakan Tozan, Mümtaz Karataş, Editor, IGI Global, Hershey, PA, pp.330-346, 2018
- VI. **Optimization in Military Planning: Resource Allocation Problems**
METİN M. G. , BULKAN S.
in: Operations Research for Military Organizations, Hakan Tozan, Mümtaz Karataş, Editor, IGI Global, Hershey, PA, pp.111-130, 2018
- VII. **Capacity Management in Hotel Industry for Turkey**
EFENDİOĞLU D., BULKAN S.
in: Handbook of Research on Holistic Optimization Techniques in the Hospitality Tourism and Travel Industry, Pandian Vasant, Kalaivanthan M., Editor, IGI GLOBAL, Hershey, pp.286-304, 2016
- VIII. **İmalat Kaynak Planlaması**
BULKAN S.
in: Endüstri Mühendisliğine Giriş, Ercan Öztemel, Editor, Papatya, İstanbul, pp.267-296, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **Hidden Risks to Cyberspace Security from Obsolete COTS Software**
Ozkan B. E. , BULKAN S.
11th International Conference on Cyber Conflict: Silent Battle, CyCon 2019, Tallinn, Estonia, 28 - 31 May 2019
- II. **Estimation of Aviation Fuel Demand of Turkey by MLR and Grey Model**
CEYLAN Z., CEYLAN S., BULKAN S.
The International Conference on Materials Science, Machine and Automotive Engineerings and Technology, 10 - 12 April 2018
- III. **Comparison of Multi-Objective Decision-Making Methods for Bi-Objective Integrated Supply Chain Network in Automotive Industry**
CEYLAN Z., BULKAN S., TOZAN H.
International Conference Computational and Experimental Science and Engineering, 4 - 08 October 2017
- IV. **An Application of Multi-Period Multi-Product Production Planning Model in Automotive Industry**
CEYLAN Z., BULKAN S., TOZAN H.
International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017
- V. **Assessment of Medical Waste Management: A Case Study in Istanbul**
CEYLAN Z., BULKAN S.
International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017
- VI. **The Grey Prediction GM (1,1) Model for Forecasting of Transportation-Related Energy Demand of Turkey**
CEYLAN Z., BULKAN S.
International Conference on Computational and Experimental Science and Engineering, 4 - 08 October 2017
- VII. **Forecasting Electricity Consumption in Turkey with Bayesian Polynomial Regression Analysis**
ERDEM M., BULKAN S., AKAY D., BORAN F. E.
5. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, 27 - 30 August 2017
- VIII. **Optimization of Integrated Production/Distribution and Inventory Planning Model for a Factory in Automotive Industry**
CEYLAN Z., BULKAN S.
International Conference on Research in Education and Science, 18 - 21 May 2017
- IX. **Assessing the Accuracy of Artificial Intelligence and MLR Models in Estimation of Road Transportation Energy Demand in Turkey**
CEYLAN Z., CEYLAN S., BULKAN S.
International Conference on Research in Education and Science, 18 - 21 May 2017
- X. **Analysis of Road Based Air Pollutant Levels by Various Artificial Intelligence Techniques for Predicting Air Quality**
CEYLAN Z., BULKAN S.
International Conference on Research in Education and Science, 18 - 21 May 2017
- XI. **A NEW TDVRP (TIME DEPENDENT VEHICLE ROUTING PROBLEM) MODEL AND ITS SOLUTION BY GENETIC ALGORITHM**
KORKMAZ M. S. , BULKAN S., DUMAN E.
13th Cologne-Twente Workshop on Graphs Combinatorial Optimization, İstanbul, Turkey, 26 - 28 May 2015, pp.229-230
- XII. **Inventory Analysis in a Pharmacy**
CEYLAN Z., BULKAN S.
International Conference on Value Chain Sustainability, 12 - 13 March 2015
- XIII. **An Analytical Approach to Automotive Industry**
ÜLKÜ İ., BULKAN S., YÜKSEKTEPE F.
International Conference on Value Chain Sustainability, 12 - 13 March 2015
- XIV. **A Heuristic Approach for Shelf Space Allocation Problem**
EROL BİNGÜLER A. H. , BULKAN S., AĞAOĞLU M.

International Conference on Value Chain Sustainability, 12 - 13 March 2015

- XV. **A GENETIC ALGORITHM APPROACH FOR AIRCRAFT LANDING PROBLEM**
PAŞALI B., ULVİ M., BULKAN S., ÇİL İ.
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