# Prof. SEROL BULKAN

## Personal Information

**Email:** sbulkan@marmara.edu.tr
**Web:** https://avesis.marmara.edu.tr/sbulkan

**International Researcher IDs**
ScholarID: O48qVXwAAAAJ&hl
ORCID: 0000-0002-4815-4389
Publons / Web Of Science ResearcherID: A-6206-2016
ScopusID: 36238723800
Yoksis Researcher ID: 172541

## 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 Colege of Engineering, Industrial Engıneering, 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, Istanbul Technical University, 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, Industrıal Engıneerıng, 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

Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2020 - Continues
Associate Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2014 - 2020
Assistant Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2001 - 2014
Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, 1998 - 2001

## 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., Conflicting weighted cost minimisation heuristic method for an assembly linescheduling problem, Doctorate, A.KARABULUT(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., Developing a framework for home healthcare routing and scheduling system and a heuristic solution approach, Doctorate, M.Erdem(Student), 2018
BULKAN S., Sales force allocation problem: A case study in banking sector, Postgraduate, B.BEGÜM(Student), 2017
BULKAN S., A heuristic solution approach for a resource management problem at news agencies, Postgraduate, A.EYÜP(Student), 2016
BULKAN S., AĞAOĞLU M., A metaheuristic algorithm to elasticity based shelf space allocation problem, Doctorate, A.HANDE(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., 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., A hybrid solution for makespan minimization in identical parallel machines with release time constraint, Doctorate, S.SAMUR(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., A new solution method for the capacitated traveling purchaser problem, Postgraduate, S.SERT(Student), 2010
BULKAN S., Solution of bicriteria open shop scheduling problem with genetic algorithm and tabu search and detailed analysis of results, Postgraduate, B.TÜRKELİ(Student), 2010
BULKAN S., A heuristic solution algorithm to quadratic assignment problem, Postgraduate, A.HANDE(Student), 2010
BULKAN S., Solution of bicteria open shop scheduling problem with genetic algorithm and tabu search and detailed analysis of results, Postgraduate, B.Türkeli(Student), 2010
BULKAN S., Using ant colony optimization to find an optimum solution for resource constrained project scheduling problem, Postgraduate, S.ALVER(Student), 2009
BULKAN S., Relationship between it investments and productivity, Postgraduate, S.OSMAN(Student), 2009
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., A new heurisitc 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., A new heuristic approach to TSP, Doctorate, K.A.(Student), 2008

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

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

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

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., 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., Comparison of genetic algorithm and particle swarm optimization algorithm for bicriteria permutation flowshop scheduling problem, Doctorate, Ö.UYSAL(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., Resource constrained scheduling of multiple projects via enhanced positional weight method, Postgraduate, S.ÇİÇEK(Student), 2005

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

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

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

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

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

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

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

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

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

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

BULKAN S., Data mining methods and an appilcation, Postgraduate, B.KARACA(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 infatry battalion in the Turkish Army, Postgraduate, M.KOCA(Student), 2002

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

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


# Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Novel Parallel Simulated Annealing Methodology to Solve the No-Wait Flow Shop Scheduling Problem with Earliness and Tardiness Objectives**
Karacan I., ŞENVAR Ö., BULKAN S.
Processes, vol.11, no.2, 2023 (SCI-Expanded)

II. **Multi-objective approach to forecast design refresh time due to COTS obsolescence**
Ozkan B. E., BULKAN S.
SYSTEMS ENGINEERING, vol.25, no.3, pp.224-241, 2022 (SCI-Expanded)

III. **An ant colony optimization approach for the proportionate multiprocessor open shop**
Adak Z., ARIOĞLU M. Ö., BULKAN S.
JOURNAL OF COMBINATORIAL OPTIMIZATION, vol.43, no.4, pp.785-817, 2022 (SCI-Expanded)

IV. **A hybrid genetic algorithm based on a two-level hypervolume contribution measure selection strategy for bi-objective flexible job shop problem**
Turkyilmaz A., ŞENVAR Ö., Unal I., BULKAN S.
COMPUTERS & OPERATIONS RESEARCH, vol.141, 2022 (SCI-Expanded)

V. **Centrality based solution approaches for median-type incomplete hub location problems**
ÖZTÜRK C., TUZKAYA G., BULKAN S.
Computers and Industrial Engineering, vol.156, 2021 (SCI-Expanded)

VI. **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 (SCI-Expanded)

VII. **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, vol.23, no.3, pp.4285-4320, 2021 (SCI-Expanded)

VIII. **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 (SCI-Expanded)

IX. **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 (SCI-Expanded)

X. **Prediction of medical waste generation using SVR, GM (1,1) and ARIMA models: a case study for megacity Istanbul**
CEYLAN Z., BULKAN S., ELEVLİ S.
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.18, no.2, pp.687-697, 2020 (SCI-Expanded)

XI. **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 (SCI-Expanded)

XII. **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 (SCI-Expanded)

XIII. **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 (SCI-Expanded)

XIV. **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 (SCI-Expanded)

## Articles Published in Other Journals

I. **A Hybrid Metaheuristic Solution Method to Traveling Salesman Problem with Drone**
Gunay-Sezer N. S., Cakmak E., BULKAN S.
Systems, vol.11, no.5, 2023 (Scopus)

II. **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 (Peer-Reviewed Journal)

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 (Peer-Reviewed Journal)

IV. **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 (Peer-Reviewed Journal)

## 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. **An Ordered Flow Shop Scheduling Problem**
Çakmak A., Ceylan Z., BULKAN S.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.161-173

II. **A Modified Bacterial Foraging Algorithm for Three-Index Assignment Problem**
EROL BİNGÜLER A. H., Türkyılmaz A., Ünal İ., BULKAN S.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.487-498

III. **Nearest Centroid Classifier Based on Information Value and Homogeneity**
Özçelik M. H., BULKAN S.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.36-45

IV. **STACKED ENSEMBLE MODELING WITH PERSONALIZED WEIGHTS BASED ON CLUSTERING**
ÖZÇELİK M. H., BULKAN S.
YAEM 2022, Denizli, Turkey, 26 - 28 October 2022, pp.154

V. **An Integrated Intuitionistic Fuzzy MCDM Approach to Rank Alternatives of Polycarbonate Thermoplastic Resins**
KARACAN İ., KARACAN İ., ERDOĞAN İ., ŞENVAR Ö., BULKAN S.
12th Annual International Conference on Industrial Engineering and Operations Management, İstanbul, Turkey, 07 March 2022, pp.1100-1111

VI. **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

VII. **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

VIII. **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

IX. **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

X. **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

XI. **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

XII. **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

XIII. **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

XIV. **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

XV. **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

XVI. **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

XVII. **Inventory Analysis in a Pharmacy**
CEYLAN Z., BULKAN S.
International Conference on Value Chain Sustainability, 12 - 13 March 2015

XVIII. **An Analytical Approach to Automotive Industry**
ÜLKÜ İ., BULKAN S., YÜKSEKTEPE F.
International Conference on Value Chain Sustainability, 12 - 13 March 2015

XIX. **A Heuristic Approach for Shelf Space Allocation Problem**
EROL BİNGÜLER A. H., BULKAN S., AĞAOĞLU M.
International Conference on Value Chain Sustainaility, 12 - 13 March 2015

XX. **A GENETIC ALGORITHM APPROACH FOR AIRCRAFT LANDING PROBLEM**
PAŞALI B., ULVİ M., BULKAN S., ÇİL İ.
CIE44 IMSS'14, İstanbul, Turkey, 14 - 16 October 2014, pp.1419-1427

XXI. **Diversity-Driven Hybrid genetic Algorithm for a course Timetabling Problem**
GÜLCÜ A., BULKAN S.
International Conference on Applied Mathematical Optimization and Modelling, WARWICK, United Kingdom, 9 - 11 April 2014, pp.75

XXII. **A Genetic Algorithm Based Solution Approach for the Time DependentVehicle Routing Problem**
KORKMAZ M. S., BULKAN S., DUMAN E.
International Conference on Industrial Engineering and Operations Management, Balvi, Indonesia, 7 - 09 January 2014, pp.50

XXIII. **A Research Survey: Application Of AI Strategies For Optimal Production Scheduling" 27 September - Antalya**
ÇALIŞ B., BULKAN S.
8th International Symposium on Intelligent and Manufacturing Systems, Antalya, Turkey, 27 December 2012

XXIV. **Application of AI Strategies for Optimal Production Scheduling**
ÇALIŞ B., BULKAN S.
8th International Symposium on Intelligent and Manufacturing Systems (IMS 2012), Antalya, Turkey, 27 - 28 September 2012

XXV. **New Genetic Algorithm for the Travelling Salesman Problem**
EROL BİNGÜLER A. H., BULKAN S.
INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND OPERATIONS MANAGEMENT, İstanbul, Turkey, 3 - 06 July 2012

XXVI. **Optimizing the ant colony optimization algorithm using neural network for the travelling salesman problem**
Erol Bingüler A. H., Er Kara M., Bulkan S.
International Conference on Industrial Engineering and Operations Management, İstanbul, Turkey, 3 - 06 July 2012, pp.1695-1701

XXVII. **Optimizing the Ant Colony Optimization Algorithm Using Neural Network for the Traveling Salesman Problem**

EROL BİNGÜLER A. H., ER KARA M., BULKAN S.

International Conference on Industrial Engineering and Operations Management, İstanbul, Turkey, 3 - 06 July 2012

XXVIII. **Parallel Machine Scheduling with Sequence Dependent Setups Times and Start to Start Dependency using GA**

BULKAN S., Güçlü B., ÖZEL S.

12th International Symposium on Econometrics Statistics and Opertions Research, Denizli, Turkey, 26 - 29 May 2011, pp.393-400

XXIX. **Weapon Target Assignment With Combinatorial Optimization Techniques**

TOKGÖZ A., BULKAN S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXX. **Parallel Machine Scheduling with Sequence Dependent Setup Times and Start-to-Start Dependency Using GA**

BULKAN S., GÜÇLÜ İ. B., ÖZEL S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXXI. **Shelf Space Optimization Using Metaheuristic Algorithms**

BİLSEL M., AYHAN M. B., BULKAN S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXXII. **Trajectory Tracking Performance Comparison of Genetic Algorithm and Ant Colony Optimization for PID Controller Tuning on Water Level Process**

DÜZDAR ARGUN İ., BULKAN S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXXIII. **Atölye Tipi Çizelgeleme Problemlerinin Arı Koloni Algoritması ve Genetik Algoritma ile Çözülmesi**

DEMİR G., BULKAN S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXXIV. **Kareli Atama Probleminin Genetik Algoritma ve Benzetimsel Tavlama Yaklaşımları ile Çözülmesi**

EROL BİNGÜLER A. H., BULKAN S.

12th International Symposium on Econometrics, Statistics, and Operations Research, Denizli, Turkey, 26 - 29 May 2011

XXXV. **Three genetic algorithm approaches to parallel machine scheduling and comparison with a heuristic**

Samur S., BULKAN S.

7th International Conference on Information Technology - New Generations, ITNG 2010, Las Vegas, NV, United States Of America, 12 - 14 April 2010, pp.270-274

XXXVI. **An Evolutionary Solution to a Multi-objective Scheduling Problem**

Samur S., BULKAN S.

World Congress on Engineering (WCE 2010), London, Canada, 30 June - 02 July 2010, pp.1717-1721

XXXVII. **A Survey For Quadratic Assignment Problems**

Erol Bingüler A. H., Bulkan S.

APIEMS2009, Kitakyushu, Japan, 14 - 16 December 2009

XXXVIII. **An LPT based heuristic with release time constraint for makespan minimization in parallel machines**

SAMUR S., BULKAN S.

APIEMS2009, Kitakyushu, Japan, 14 - 16 December 2009

XXXIX. **Proje Yönetiminde Maliyet Zaman Kalite İlişkilerinin Araştırılması**

ŞENVAR Ö., BULKAN S.

9. Ulusal Üretim Araştırmaları Sempozyumu, Eskişehir, Turkey, 15 - 17 October 2009, pp.239-244

XL. **Scheduling Component Placement Operations for Collect-and-Place Type PCB Assembly Machines**

KULAK Ö., BULKAN S., GÜNTHER H. O.

Annual International Conference of the German Operations Research Society, Augsburg, Germany, 3 - 05
September 2008

XLI. **Cyclical Behavior of Investment and Production: An Application of Second-Order Accelaration Model**
ULUSOY V., BULKAN S.
Annual Meeting of Atlantic Economic Association, Munich, Germany, 16 - 20 March 2000

XLII. **Trade and Growth: Constraint Optimization via Genetic Algorithm**
ULUSOY V., BULKAN S.
Annual Meeting of APEE, Orlando, United States Of America, 11 - 13 April 1999

XLIII. **A Genetic Algorithm Approach to the Production Process and International Trade**
ULUSOY V., BULKAN S.
Annual Meeting of Midwest Economic Association, Nashville, United States Of America, 24 - 26 March 1999

XLIV. **A Genetic Algorithm Approach to Job Shop Scheduling**
BULKAN S.
Joint Engineering Technical Symposium, Cleveland, United States Of America, 14 - 15 September 1995

## Supported Projects

Bulkan S., Project Supported by Higher Education Institutions, Çok Amaçlı Esnek Atölye Tipi Çizelgelemeler için Hibrid
Evrimsel Algoritma, 2018 - 2020
Bulkan S., Project Supported by Higher Education Institutions, Sahtekarlık Tespitinin Akıllı Yolları, Marmara Üniversitesi,
BAPKO Proje No: FEN-C-DRP-211009-0320, 2009 - 2011

## Scientific Refereeing

JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, September 2019

## Metrics

Publication: 106
Citation (WoS): 324
Citation (Scopus): 579
H-Index (WoS): 8
H-Index (Scopus): 8

## Scholarships

1416 sayılı ecnebi memleketlere gönderilecek talebe, Ministry of Education, 1989 - 1998