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International Researcher IDs

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Education Information

Doctorate, The Pennsylvania State University, Endüstri Mühendisliği, United States Of America 1998 - 2001

Undergraduate, Istanbul Technical University, İşletme Fakültesi, İşletme Mühendisliği Bölümü, Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Research Areas

Computer Sciences, algorithms, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Software Engineering, Soft Computing, Industrial Engineering , Stochastic Modeling, Queueing Theory and Applications, Stochastic Processes, Optimization Theory and Methods, Paving Theory and Applications, Multiobjective Optimization, Nonlinear Programming, Global Optimization, Integer and Mixed Integer Programming, Simulation, Simulation Optimization, Discrete Simulation, System Dynamics, Production Planning and Control, Scheduling, Facility Location and Design, Modelling and Analysis of Production Systems , Project Management, Strategic planning, Technology and Inovation Management, Decision Theory, Computer Science, Linear and Multilinear Algebra: Matrix Theory, Probability Theory, Stochastic Processes, Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2011 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2005 - Continues

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2002 - 2005

Lecturer PhD, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2002 - 2002

Advising Theses

ÖZMUTLU H. C., A decision support system for abnormal waste in retail industry, Postgraduate, H.Çelikmakas(Student), 2020

ÖZMUTLU H. C., Optimization and standardization of raw material & material flow between two plants in different locations, Postgraduate, E.Kurtuluş(Student), 2019

ÖZMUTLU H. C., Unmanned aerial vehicle supported vehicle routing problem, Doctorate, E.Eş(Student), 2018

ÖZMUTLU H. C., New approaches to minimizing cycle time in assembly line balancing problems: Task paralleling and station paralleling, Doctorate, H.ALTUNAY(Student), 2017

ÖZMUTLU H. C., Genetic algorithm for batch splitting & scheduling and application, Doctorate, D.YILMAZ(Student), 2014

ÖZMUTLU H. C., Simultaneously scheduling of jobs with multiple operations in consecutive machines, Doctorate, B.ÇAĞLAR(Student), 2014

ÖZMUTLU H. C., Development a similarity measure for crossover operator in genetic algorithm, Doctorate, A.ALTAN(Student), 2013

ÖZMUTLU H. C., Artificial intelligence in forecasting, Postgraduate, N.YAZICIOĞLU(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A decomposition-based iterative optimization algorithm for traveling salesman problem with drone**
Eş Yürek E., Özmutlu H. C.
TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES, vol.91, pp.249-262, 2018 (SCI-Expanded)
- II. **Solution method for a large-scale loom scheduling problem with machine eligibility and splitting property**
Eroglu D. Y., Ozmutlu H. C.
JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.12, pp.2154-2165, 2017 (SCI-Expanded)
- III. **Scheduling Methods for Efficient Stamping Operations at an Automotive Company**
ÇAĞLAR GENÇOSMAN B., Begen M. A., ÖZMUTLU H. C., Yilmaz I. O.
PRODUCTION AND OPERATIONS MANAGEMENT, vol.25, no.11, pp.1902-1918, 2016 (SCI-Expanded)
- IV. **Character n-gram application for automatic new topic identification**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C., ÖZMUTLU S.
INFORMATION PROCESSING & MANAGEMENT, vol.50, no.6, pp.821-856, 2014 (SCI-Expanded)
- V. **MIP Models and Hybrid Algorithms for Simultaneous Job Splitting and Scheduling on Unrelated Parallel Machines**
YILMAZ EROĞLU D., ÖZMUTLU H. C.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
- VI. **A GENETIC ALGORITHM FOR THE UNRELATED PARALLEL MACHINE SCHEDULING PROBLEM WITH JOB SPLITTING AND SEQUENCE-DEPENDENT SETUP TIMES - LOOM SCHEDULING**
YILMAZ EROĞLU D., ÖZMUTLU H. C., Koksall S. A.
TEKSTİL VE KONFEKSİYON, vol.24, no.1, pp.66-73, 2014 (SCI-Expanded)
- VII. **Introducing the MCHF/OVRP/SDMP: Multicapacitated/Heterogeneous Fleet/Open Vehicle Routing Problems with Split Deliveries and Multiproducts**
YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B., ÇAVDUR F., ÖZMUTLU H. C.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
- VIII. **Genetic algorithm with local search for the unrelated parallel machine scheduling problem with sequence-dependent set-up times**
Yılmaz Eroğlu D., Özmutlu H. C., Özmutlu S.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.52, no.19, pp.5841-5856, 2014 (SCI-Expanded)
- IX. **Neural network applications for automatic new topic identification of FAST and Excite search engine transaction logs**
ÖZMUTLU S., ÖZMUTLU H. C., Cosar G. C.
EXPERT SYSTEMS, vol.28, no.2, pp.101-122, 2011 (SCI-Expanded)
- X. **Markovian analysis for automatic new topic identification in search engine transaction logs**

Ozmutlu H. C.

APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY, vol.25, no.6, pp.737-768, 2009 (SCI-Expanded)

- XI. **A Monte-Carlo simulation application for automatic new topic identification of search engine transaction logs**
ÖZMUTLU S., ÖZMUTLU H. C., Buyuk B.
SIMULATION MODELLING PRACTICE AND THEORY, vol.16, no.5, pp.519-538, 2008 (SCI-Expanded)
- XII. **Cross-validation of neural network applications for automatic new topic identification**
ÖZMUTLU H. C., ÇAVDUR F., ÖZMUTLU S.
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY, vol.59, no.3, pp.339-362, 2008 (SCI-Expanded)
- XIII. **Using conditional probabilities for automatic new topic identification**
Ozmutlu S., Ozmutlu H. C., Buyuk B.
ONLINE INFORMATION REVIEW, vol.31, no.4, pp.491-515, 2007 (SCI-Expanded)
- XIV. **Automatic new topic identification in search engine transaction logs**
Ozmutlu H. C., Cavdur F., Ozmutlu S.
INTERNET RESEARCH, vol.16, no.3, pp.323-338, 2006 (SCI-Expanded)
- XV. **Application of automatic topic identification on Excite Web search engine data logs**
Ozmutlu H. C., Cavdur F.
INFORMATION PROCESSING & MANAGEMENT, vol.41, no.5, pp.1243-1262, 2005 (SCI-Expanded)
- XVI. **A day in the life of Web searching: an exploratory study**
Ozmutlu S., Spink A., Ozmutlu H. C.
INFORMATION PROCESSING & MANAGEMENT, vol.40, no.2, pp.319-345, 2004 (SCI-Expanded)
- XVII. **Web searching for sexual information: an exploratory study**
Spink A., Ozmutlu H. C., Lorence D.
INFORMATION PROCESSING & MANAGEMENT, vol.40, no.1, pp.113-123, 2004 (SCI-Expanded)
- XVIII. **Multimedia Web searching trends: 1997-2001**
Ozmutlu S., Spink A., Ozmutlu H. C.
INFORMATION PROCESSING & MANAGEMENT, vol.39, no.4, pp.611-621, 2003 (SCI-Expanded)
- XIX. **Multitasking Web searching and implications for design**
Ozmutlu S., Ozmutlu H. C., Spink A.
ASIST 2003: PROCEEDINGS OF THE 66TH ASIST ANNUAL MEETING, VOL 40, 2003, vol.40, pp.416-421, 2003 (SCI-Expanded)
- XX. **Are people asking questions of general Web search engines?**
Ozmutlu S., Ozmutlu H. C., Spink A.
ONLINE INFORMATION REVIEW, vol.27, no.6, pp.396-406, 2003 (SCI-Expanded)
- XXI. **Analysis of large data logs: an application of Poisson sampling on excite web queries**
Ozmutlu H. C., Spink A., Ozmutlu S.
INFORMATION PROCESSING & MANAGEMENT, vol.38, no.4, pp.473-490, 2002 (SCI-Expanded)
- XXII. **Multitasking information seeking and searching processes**
Spink A., Ozmutlu H. C., Ozmutlu S.
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY, vol.53, no.8, pp.639-652, 2002 (SCI-Expanded)
- XXIII. **Multimedia web searching trends**
Ozmutlu S., Spink A., Ozmutlu H. C.
ASIST 2002: PROCEEDINGS OF THE 65TH ASIST ANNUAL MEETING, VOL 39, 2002, vol.39, pp.403-408, 2002 (SCI-Expanded)
- XXIV. **What do people ask for on the Web and how do they ask it: Ask Jeeves query analysis**
Spink A., Ozmutlu H. C.
ASIST 2001: PROCEEDINGS OF THE 64TH ASIST ANNUAL MEETING, VOL 38, 2001, vol.38, pp.545-554, 2001 (SCI-Expanded)
- XXV. **Sexually related information seeking on the Web**

Spink A., Ozmutlu H. C.

ASIST 2001: PROCEEDINGS OF THE 64TH ASIST ANNUAL MEETING, VOL 38, 2001, vol.38, pp.382-390, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **Arama Motorlarında Yeni Konu Tanılamada Karakter N gram ve Yapay Sinir Ağları Uygulaması**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C.
Mühendislik-Mimarlık Fakültesi Dergisi, vol.2, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Automotive Stamping Operations Scheduling Using Mathematical Programming and Constraint Programming**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C., Özkan H., Beğen M.
in: Industrial Engineering Non-Traditional Applications in International Settings, Bopaya Bidanda, İhsan Sabuncuoğlu, Bahar Y. Kara, Editor, CRC Press, Taylor and Francis Group, New York, pp.37-69, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Traveling Salesman Problem with multi-Drones**
EŞ YÜREK E., ÖZMUTLU H. C.
EURO 2018, Valensiya, Spain, 8 - 11 July 2018
- II. **İHA Destekli Gezin Satıcı Problemi**
EŞ YÜREK E., ÖZMUTLU H. C.
38. Yöneylem Araştırması Endüstri Mühendisliği Ulusal Kongresi, Eskişehir, Turkey, 26 - 29 June 2018
- III. **ANALYSIS OF TRAVELING SALESMAN PROBLEM WITH DRONES UNDER VARYING DRONE SPEED**
EŞ YÜREK E., ÖZMUTLU H. C.
The 15th International Logistics and Supply Chain Congress (LMSCM), İstanbul, Turkey, 19 - 20 October 2017
- IV. **An iterative optimization approach for drone supported travelling salesman problem**
EŞ YÜREK E., ÖZMUTLU H. C.
Optimization 2017, Lizbon, Portugal, 6 - 08 September 2017
- V. **Decomposition of stamping scheduling problem with multiple operations in consecutive machines**
ÇAĞLAR GENÇOSMAN B., mehmet b., ÖZMUTLU H. C.
ICAAMM-International Conference on Applied Analysis and Mathematical Modeling, 8 - 12 June 2015
- VI. **An iterative mathematical programming algorithm for solving automotive stamping scheduling problem**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C., beğen m.
ICAAMM-International Conference on Applied Analysis and Mathematical Modeling, 8 - 12 June 2015
- VII. **Improved MIP Model for Parallel Machines' Scheduling Problem**
YILMAZ EROĞLU D., ÖZMUTLU H. C.
International Congress in Honour of Professor Ravi P. Agarwal, Bursa, Turkey, 23 - 26 June 2014, pp.54
- VIII. **Performance comparison between Character N-gram and Levenshtein edit-distance for automatic topic identification in search engines**
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., ÖZMUTLU H. C.
International Software Conference and Exhibition, 27 - 28 September 2013
- IX. **Simultaneous feature selection and weighting: A new approach based on genetic algorithm with local search**

YILMAZ EROĞLU D., KILIÇ K., ÖZMUTLU H. C.

International IIE Conference, İstanbul, Turkey, 26 - 28 June 2013, pp.56

- X. **Decomposition, numaricalisation and standardisation of material and labour costs**
AYDIN F., BİRKANLIER B., DURAK G., ÖZMUTLU H. C., GÜNDÜZ T.
International IIE Conference 2013, İstanbul, Turkey, 26 - 28 June 2013, pp.232
- XI. **Production Scheduling Using Constraint Programming**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C., Hnich B.
The 18th International Conference on Principles and Practice of Constraint Programming (CP'12), 8 - 12 October 2012, pp.1-6
- XII. **Automatic New Topic Identification in Search Engine Transaction Log Using Goal Programming**
ÇAVDUR F., ÖZMUTLU S., ÖZMUTLU H. C., YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B.
Proceedings of the 2012 International Conference on Industrial Engineering and Operations Management, 3 - 06 July 2012
- XIII. **Bir Otomotiv Yan Sanayii Firmasında Kablo Kesme Hattında Paralel Makine Çizelgeleme Probleminin İncelenmesi**
Özbelli F., Alagöz H., Taş S., ORBAK A. Y., ÖZMUTLU H. C.
Yöneylem Araştırması ve Endüstri Mühendisliği 32. Ulusal Kongresi (YAEM2012), İstanbul, Turkey, 20 - 22 June 2012, pp.118
- XIV. **Açık Uçlu Araç Rotalama Probleminde Genetik Algoritma Yaklaşımı**
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., ÇAVDUR F., ÖZMUTLU S., ÖZMUTLU H. C.
Yöneylem Araştırması ve Endüstri Mühendisliği 32. Ulusal Kongresi (YA/EM 2012), Turkey, 20 June 2012
- XV. **Çeşitli ürünler üretilen hatlarda tip dönme için yapılan hazırlıkların azaltılması**
TAVUSKUŞU F., PALABIYIK A., YILMAZ G., ÖZMUTLU H. C., GÜNDÜZ T., ÖZBEY H.
Yöneylem Araştırması ve Endüstri Mühendisliği 31. Ulusal Kongresi, Sakarya, Turkey, 5 - 07 July 2011, pp.160
- XVI. **Statistical Procedures for Robotic Assembly Line Balancing Problems**
ÇAĞLAR GENÇOSMAN B., ÖZMUTLU H. C., ORBAK A. Y., ÖZMUTLU S.
24th European Conference on Operational Research, EUROXXIV Lisbon 2010, Lisbon, Portugal, 11 - 14 July 2010, pp.166
- XVII. **Bir otomotiv firmasında montaj departmanı tesis yerleşimi ve iş atama problemlerinin incelenmesi**
Biçer E., Yaşaroğlu K., Mete H., Çetin M., ORBAK A. Y., ÖZMUTLU H. C.
Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi (YAEM2010), İstanbul, Turkey, 30 June - 02 July 2010, pp.38
- XVIII. **Using Monte-Carlo simulation for automatic new topic identification of search engine transaction logs**
ÖZMUTLU S., ÖZMUTLU H. C., Buyuk B.
2007 Winter Simulation Conference, Washington, Kiribati, 9 - 12 December 2007, pp.2285-2293
- XIX. **Üretim Sistemlerinde Robot Çizelgeleme Probleminin İncelenmesi**
ORBAK A. Y., ÖZMUTLU S., ÖZMUTLU H. C., Erdiller Orbak A.
Tasarım İmalat ve Analiz Kongresi, TİMAK 2006, Balıkesir, Turkey, 26 - 28 April 2006
- XX. **Neural network applications for automatic new topic identification on excite web search engine data logs**
Ozmutlu H. C., Cavdur F., Ozmutlu S., Spink A.
67th Annual Meeting of the American-Society-for-Information-Science-and-Technology, Rhode Island, United States Of America, 12 - 17 November 2004, vol.41, pp.310-316
- XXI. **An architecture for SCS: A specialized web crawler on the topic of security**
Ozmutlu H. C., Ozmutlu S.
67th Annual Meeting of the American-Society-for-Information-Science-and-Technology, Rhode Island, United States Of America, 12 - 17 November 2004, vol.41, pp.317-326
- XXII. **A study of multitasking Web search**
Ozmutlu S., Ozmutlu H. C., Spink A.
International Conference on Information Technology - Coding and Computing, Nevada, United States Of America,

28 - 30 April 2003, pp.145-148

XXIII. Trends in multimedia web searching: Excite queries

Ozmutlu S., Spink A., Ozmutlu H. C.

3rd International Conference on Information Technology: Coding and Computing (ITCC 2002), Nevada, United States Of America, 8 - 10 April 2002, pp.40-45

XXIV. Zone recovery methodology for probe-subset selection in end-to-end network monitoring

Ozmutlu H. C., Gautam N., Barton R.

8th IEEE/IFIP Network Operations and Management Symposium (NOMS 2002), Florence, Italy, 15 - 19 April 2002, pp.451-464

XXV. Time-based analysis of search data logs

Ozmutlu H. C., Spink A.

2nd International Conference on Internet Computing (IC 2001), Nevada, United States Of America, 25 - 28 June 2001, pp.41-46

XXVI. Network monitoring: Probe-subset selection using the constrained coverage problem

Ozmutlu H. C., Barton R., Gautam N., Hery W.

Conference on Performance and Control of Network Systems III, Massachusetts, United States Of America, 20 - 21 September 1999, vol.3841, pp.239-247

Metrics

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