

Prof. Mustafa SİVRİ

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1979 - 1983

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1975 - 1978

Undergraduate, Ege University, Faculty Of Science, Matematik, Turkey 1971 - 1975

Research Areas

Mathematics, Computer Science, Optimization, Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 1999 - Continues

Associate Professor, Yildiz Technical University, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 1992 - 1999

Assistant Professor, Mimar Sinan Fine Arts University, Fen Edebiyat Fakültesi, Matematik, 1986 - 1992

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, 2017 - Continues

Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 2016 - Continues

Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Matematik Mühendisliği, 2008 - 2014

Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Matematik Mühendisliği, 2005 - 2008

Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 1999 - 2002

Courses

Lineer Programlama Teorisi, Undergraduate, 2017 - 2018

Yöneylem Araştırması, Undergraduate, 2017 - 2018

Mat. Müh. Tas. Uyg., Undergraduate, 2017 - 2018

Optimizasyon Teknikleri, Undergraduate, 2016 - 2017

Yöneylem Araş. Özel Konular, Postgraduate, 2017 - 2018

Finans Matematiği, Undergraduate, 2016 - 2017

Oyunlar Teorisi, Undergraduate, 2017 - 2018

Advancing Research

- SİVRİ M., Lineer Olmayan Programlama Problemine Bir Çözüm Önerisi, Doctorate, H.DALMAN(Student), 2015
- SİVRİ M., DİFERANSİYEL DENKLEMLERİN DİFERANSİYEL KARESELLEŞTİRME METODU İLE ÇÖZÜMÜ, Postgraduate, G.TEMELCAN(Student), 2013
- SİVRİ M., Adomian Dekompozisyon(Ayrışım) Metodu ile Kompozit Malzemelerde Dalga Yayılımı, Postgraduate, G.YİĞİT(Student), 2012
- SİVRİ M., ÇOK AMAÇLI LİNEER KESİRLİ TAŞIMA PROBLEMİNE TAYLOR SERİSİ VE ÜYELİK FONKSİYONLARI YARDIMIYLA BİR ÇÖZÜM ÖNERİSİ, Postgraduate, M.BERTUĞ(Student), 2011
- SİVRİ M., LİNEER KESİRLİ TAŞIMA PROBLEMLERİNE BİR ÇÖZÜM ÖNERİSİ, Postgraduate, S.ESFER(Student), 2009
- SİVRİ M., VADELİ İŞLEMLERDE FİYATLANDIRMANIN MATEMATİKSEL YÖNTEMLERLE ANALİZİ, Postgraduate, D.ÖZVEREN(Student), 2007
- SİVRİ M., FİYATLARIN ARALIKLI VERİLMESİ DURUMUNDA TAŞIMA PROBLEMİNE ÇÖZÜM ÖNERİSİ, Postgraduate, E.TEZCAN(Student), 2005
- SİVRİ M., YAPAY SİNİR AĞI YARDIMIYLA DESEN TANIMA VE BULUNAN DÜZELTME FONKSİYONUNUN İNCELENMESİ, Postgraduate, A.ERKEN(Student), 2000

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, Yıldız Teknik Üniversitesi, October, 2017

Associate Professor Exam, Doçentlik Sınav Jürisi, Yıldız Teknik Üniversitesi, March, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Fuzzy Logic Based Approach to Solve Interval Multiobjective Nonlinear Transportation Problem**
Dalman H., SİVRİ M.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.89, no.2, pp.279-289, 2019 (SCI-Expanded)
- II. **Multi-objective Solid Transportation Problem in Uncertain Environment**
Dalman H., SİVRİ M.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.41, pp.505-514, 2017 (SCI-Expanded)
- III. **A Fuzzy Set-Based Approach to Multi-objective Multi-item Solid Transportation Problem Under Uncertainty**
Dalman H., GÜZEL N., SİVRİ M.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.18, no.4, pp.716-729, 2016 (SCI-Expanded)
- IV. **A simple parametric method to generate all optimal solutions of fuzzy solid transportation problem**
Kocken H., Sivri M.
APPLIED MATHEMATICAL MODELLING, vol.40, pp.4612-4624, 2016 (SCI-Expanded)
- V. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**
Güler C., Emiroğlu İ., Taşçı F., Sivri M.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.4, pp.1341-1344, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Solving Multi-Objective Linear Fractional Programming Problems via Zero-Sum Game**
TEMELCAN G., ALBAYRAK F. İ., SİVRİ M.
APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL, vol.17, no.2, pp.508-522, 2022 (Peer-Reviewed Journal)
- II. **A Solution Approach for a Class of Parametric Linear Programming Problems**

SİVRİ M., ALBAYRAK F. İ., ŞİMŞEK ALAN K., TEMELCAN G.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.2901-2906, 2020 (Peer-Reviewed Journal)

- III. **A new iterative linearization approach for solving nonlinear equations systems**
Temelcan G., Albayrak F. I., Sivri M.
An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.10, no.1, pp.47-54, 2020 (Scopus)
- IV. **An Alternative Algorithm for Solving Pure Integer Linear Programming Problems Having Two Variables**
Şimşek Alan K., Sivri M., Albayrak F. İ., Güler C.
International Journal of Applied Information Systems, pp.6-9, 2019 (Peer-Reviewed Journal)
- V. **Generating a set of compromise solutions of a multi objective linear programming problem through the game theory**
Köçken H., Albayrak F. İ., Sivri M., Akın S.
Operations Research and Decisions, vol.29, no.29, pp.77-88, 2019 (ESCI)
- VI. **GENERATING A SET OF COMPROMISE SOLUTIONS OF A MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM THROUGH GAME THEORY**
SİVRİ M., KÖÇKEN H., Albayrak I., AKIN BAŞ S.
OPERATIONS RESEARCH AND DECISIONS, vol.29, no.2, pp.77-88, 2019 (ESCI)
- VII. **A Novel Solution Approach using Linearization Technique for Nonlinear Programming Problems**
SİVRİ M., ALBAYRAK F. İ., TEMELCAN G.
International Journal of Computer Applications, vol.181, pp.1-5, 2018 (Peer-Reviewed Journal)
- VIII. **A Solution Algorithm for Interval Transportation Problems via Time-Cost Tradeoff**
Albayrak F. İ., Temelcan G., Sivri M.
JOURNAL OF ADVANCES IN MATHEMATICS, vol.14, no.2, pp.7691-7701, 2018 (Peer-Reviewed Journal)
- IX. **A Solution Algorithm for Interval Transportation Problems via Time-Cost Tradeoff**
Albayrak F. İ., Sivri M., Temelcan G.
JOURNAL OF ADVANCES IN MATHEMATICS, vol.14, no.2, pp.7691-7701, 2018 (Peer-Reviewed Journal)
- X. **A new iterative approach for solving nonlinear programming problem**
Sivri M., Albayrak F. I., Temelcan G.
New Trends in Mathematical Science, vol.2, pp.68-77, 2018 (Peer-Reviewed Journal)
- XI. **A Novel Approach for Solving Quadratic Fractional Programming Problems**
SİVRİ M., Albayrak I., Temelcan G.
CROATIAN OPERATIONAL RESEARCH REVIEW, vol.9, no.2, pp.199-209, 2018 (ESCI)
- XII. **A Solution Proposal To Indefinite Quadratic Interval Transportation Problem**
Dalman H., Köçken H., Sivri M.
New Trends in Mathematical Sciences, vol.1, pp.7-12, 2013 (Peer-Reviewed Journal)
- XIII. **A Solution Proposal for Interval Solid Transportation Problem**
Torunbalcı Aydın F., Güler C., Sivri M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.3, no.2006, pp.109-118, 2006 (ESCI)
- XIV. **Dengeli- Seçme ve Seçtirmeli-Ekonomik Beslenme**
AHLATCIOĞLU M., GÜZEL N., SİVRİ M.
Sigma Journal of Engineering and Natural Sciences, no.3, pp.94-100, 2004 (ESCI)
- XV. **Balanced Selection of Economical Diet**
GÜZEL N., SİVRİ M.
Sigma Journal of Engineering and Natural Sciences (Yıldız Teknik Üniversitesi, Sigma Mühendislik ve Fen Bilimleri Dergisi), 2004 (Non Peer-Reviewed Journal)
- XVI. **Transportation of the Fuzzy Amounts using the Fuzzy Cost**
AHLATCIOĞLU M., SİVRİ M., GÜZEL N.
Journal of Marmara for Pure and Applied Sciences, no.18, pp.139-155, 2002 (Peer-Reviewed Journal)
- XVII. **Transportation of the fuzzy amounts using the fuzzy costs**
AHLATCIOĞLU M., SİVRİ M., GÜZEL N.

Marmara Journal of Pure & Applied Sciences, 2002 (Peer-Reviewed Journal)

XVIII. **Genelleştirilmiş Taşıma Problemi Çözümüne Ramakrishnan Yaklaşımı**

SİVRİ M.

9 Eylül Üniversitesi, İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.5, pp.392-398, 1990 (Non Peer-Reviewed Journal)

XIX. **Çok Amaç ile Zaman Etkileşimli Taşıma Problemi**

SİVRİ M.

Y.T.Ü. Dergisi, 1990 (Non Peer-Reviewed Journal)

XX. **İki Amaçlı Zaman Etkileşimli Taşıma Problemi Çözümüne Hiperbolik Amaçlı Taşıma Yaklaşımı**

SİVRİ M.

Y.T.Ü. DERGİSİ, 1990 (Non Peer-Reviewed Journal)

XXI. **Multiobjective Interval Transportation Problem**

KARPAK B., SİVRİ M.

Youngstone State University, 1990 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Matematik Programlamaya Giriş**

SİVRİ M., TEPECİK A.

Ytü Basım-Yayın Merkezi, 1998

Refereed Congress / Symposium Publications in Proceedings

I. **Solving Fuzzy Multi-objective Linear Programming Problems Using Multi-player Zero-Sum Game**

Temelcan G., Albayrak I., Köçken H., Sivri M.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, vol.1197 AISC, pp.1483-1490

II. **An Algorithm for Solving Pure Integer Linear Programming Problems**

SİVRİ M., ALBAYRAK F. İ., Gonca Kocken H., ŞİMŞEK ALAN K.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2019, 10 March - 13 October 2019

III. **GENERATING A SET OF COMPROMISE SOLUTIONS OF A MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM USING GAME THEORY**

Sivri M., Gonca Köçken H., Albayrak F. İ., Esen H.

(ICMSA2018), Karaman, Turkey, 04 October 2018, pp.111

IV. **A new method for generating some extreme points of a convex polyhedron for solving multi-objective linear programming problems using game theory approach**

Sivri M., Köçken H., Albayrak F. İ., Temelcan G., Esen H.

International Conference on Mathematical Studies and Applications, Konya, Turkey, 4 - 07 October 2018, pp.112

V. **A game theory based approach to generate a set of compromise solutions of a multiobjective linear programming problem**

SİVRİ M., KÖÇKEN H., ALBAYRAK F. İ., AKIN S.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2018, İstanbul, Turkey, 20 June 2018, pp.13

VI. **A Solution Procedure for Interval Transportation Problems via Time-Cost Trade off**

Temelcan G., ALBAYRAK F. İ., SİVRİ M.

User-Optimum Fuzzy Traffic Assignment Problem??,13th Balkan Conference on Operational Research (BALCOR? 18) ,Belgrade, Serbia,p:57May 25-28, 2018., Belgrade, Serbia And Montenegro, 25 May 2018, pp.32

VII. **A New Incremental Technique for solving Nonlinear programming Problems**

SİVRİ M., ALBAYRAK F. İ., TEMELCAN G.

International Conference on Applied Analysis and Mathematical Modeling, 7 March - 07 July 2017

- VIII. **A new iterative approach for solving nonlinear programming problems**
ALBAYRAK F. İ., SİVRİ M., TEMELCAN G.
ICPASS 2017, 2 - 06 February 2017
- IX. **Uncertain Programming Model for Multiobjective Multi-item Solid Transportation Problem**
SİVRİ M., ERFİDAN G.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 08 June 2015, pp.427
- X. **Uncertain Programming Model for Multiobjective Solid Transportation Problem**
GÜZEL N., SİVRİ M.
6nd International Conference on Modelling, Simulation and Applied Optimization, İstanbul, Turkey, 27 May 2015, pp.17
- XI. **Uncertain Programming Model for Multi Objective Solid Transportation Problem**
Dalman H., Güzel N., Sivri M.
The sixth International Conference on Modelling, Simulation and Applied Optimization, İstanbul, Turkey, 27 - 29 May 2015, pp.100
- XII. **An Iterative Method For Nonlinear Optimization Problems**
SİVRİ M., ÇİÇEK G.
International Conference on Advances in Applied Mathematics and Mathematical Physics, İstanbul, Turkey, 19 August 2014, pp.10
- XIII. **A New Algorithm to the Solution of Multi Objective Linear Fractional Programming Problem with Interval Cost Coefficients Method**
SİVRİ M., TAŞÇI F., GÜLER C., DALMAN H., GÜZEL N.
International Conference and Workshop on Mathematical Analysis, Putrajaya, Malaysia, 27 May 2014, pp.10
- XIV. **On the solution of Lane-Emden equation with index-n by Legendre polynomials**
Güler C., Emiroğlu İ., Taşçı F., Sivri M.
International conference and workshop on mathematical analysis, İstanbul, Turkey, 27 - 30 May 2014, pp.28
- XV. **The fractional transportation problem with interval demand, supply and costs**
Köçken H., Emiroğlu İ., Güler C., Taşçı F., Sivri M.
International Conference on Mathematical Sciences and Istatistic 2013 (ICMSS 2013), Kuala-Lumpur, Malaysia, 5 - 07 February 2013, vol.1557, pp.339-344
- XVI. **The Fractional Transportation Problem with Interval Demand, Supply and Costs**
Kocken H., Emiroğlu İ., Gueler C., Taşçı F., Sivri M.
International Conference on Mathematical Sciences and Statistics (ICMSS), Kuala-Lumpur, Malaysia, 5 - 07 February 2013, vol.1557, pp.339-344
- XVII. **A solution Proposal to the Interval Fractional Transportation Problem**
Güzel N., Emiroğlu İ., Taşçı F., Güler C., Sivri M.
2. International Conference on Mathematics and Information Science, Sawhaj, Egypt, 10 - 13 September 2011, pp.155
- XVIII. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**
Güler C., Emiroğlu İ., Taşçı F., Sivri M.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 29 June - 02 July 2011, pp.261-262
- XIX. **Solution Proposal to the Transportation Problem with the Linear Fractional objective Function, Modelling**
Sivri M., Emiroglu I., Güler C., Tasci F.
Simulation and Applied Optimization ((ICMSS2013), 2011 4th International Conference on Mathematical Sciences and statistics, Kuala-Lumpur, Malaysia, 19 - 22 April 2011, pp.78
- XX. **A Solution Proposal to the Transportation Problem with the Linear Fractional Objective Function**
Güler C., Taşçı F., Emiroğlu İ., Sivri M.
Fourth International Conference on Modelling Simulation and Applied Optimization (ICMSAO'11), Kuala-Lumpur,

Malaysia, 19 - 21 April 2011, pp.1-7

XXI. **The Taylor Matrix Method for Approximate Solution of Lane-Emden Equation with index-n**

Güler C., Emirođlu İ., Taşçı F., Sivri M.

International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 6 - 10 June 2011, pp.1

XXII. **Bulanık Fiyatlarla Bulanık Miktarların Tasınması**

SİVRİ M., GÜZEL N.

01 July 2001

XXIII. **Beslenme Problemine Bir Çözüm Önerisi**

SİVRİ M.

Scientific Refereeing

International Journal of Fuzzy System Applications, Other Indexed Journal, December 2017

Metrics

Publication: 51

Citation (WoS): 47

Citation (Scopus): 58

H-Index (WoS): 4

H-Index (Scopus): 4

Non Academic Experience

Yıldız Teknik Üniversitesi

Yıldız Teknik Üniversitesi

Mimarsinan Üniversitesi

Yıldız Teknik Üniversitesi (İ.D.M.M.A)

Turgutlu Lisesi