

## 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