

Assoc. Prof. Hale KÖÇKEN

Personal Information

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Biography

Hale Gonçe Kocken is an Associate Professor in the Department of Mathematical Engineering at the Yıldız Technical University (YTU), İstanbul, Turkey. She has been a faculty member of YTU since 2004. She completed her Ph.D. entitled "Fuzzy approaches to network analysis" in Applied Mathematics (2011) from the same department. Her current area of research is mathematical Programming, supply chain management and some related Operational Research subjects in multi criteria and fuzzy environments. Additionally, she has doing research about multi criteria decision making methods with type -2 fuzzy numbers and also fractional programming.

Education Information

Doctorate, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, Turkey 2005 - 2011

Post Graduate, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, Turkey 2003 - 2005

Under Graduate, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Şebeke analizlerine bulanık yaklaşımlar , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik Mühendisliği, 2011

Post Graduate, Çok amaçlı bulanık lineer taşıma problemi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik Mühendisliği , 2005

Research Areas

Social Sciences and Humanities, Econometrics, Operational Research, Management, Quantitative Methods, Industrial Engineering , Optimization Theory and Methods, Multiobjective Optimization, Linear Programming, Decision Theory, Multi Criteria Decision Making, Supply Chain and Logistics Management, Mathematics, Optimization, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji , Matematik Mühendisliği, 2017 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji , Matematik Mühendisliği, 2012 - 2017

Research Assistant PhD, Yıldız Teknik Üniversitesi, Kimya Metalurji , Matematik Mühendisliği, 2011 - 2012

Research Assistant, Yıldız Teknik Üniversitesi, Kimya Metalurji , Matematik Mühendisliği, 2004 - 2011

Courses

Yöneylem Araştırması, Under Graduate, 2017 - 2018

Finans Matematiğine Giriş, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Optimizasyon Teknikleri, Under Graduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Lineer Programlama Teorisi, Under Graduate, 2017 - 2018

Yöneylem Araştırması, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018

Lineer Programlama Teorisi, Under Graduate, 2017 - 2018

Lineer Programlama Teorisi, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018

Advising Theses

KÖÇKEN H., Bulanık Parametrel Trafik Atama Problemi, Doctorate, G.Temelcan(Student), Continues

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

- **SYSTEM OPTIMUM FUZZY TRAFFIC ASSIGNMENT PROBLEM**
Temelcan G., Kocken H., Albayrak I.
PROMET-TRAFFIC & TRANSPORTATION, vol.31, pp.611-620, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **A mixed integer programming approach to a square fully fuzzy linear equation**
AHLATCIOĞLU M., Albayrak I., Kocken H. G. , Ozkok B. A.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.31, pp.2009-2015, 2016 (Journal Indexed in SCI)
- **An approach for finding fuzzy optimal and approximate fuzzy optimal solution of fully fuzzy linear programming problems with mixed constraints**
Özkök B., Albayrak F. İ. , Köçken H., Ahlatcioğlu M.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.31, pp.623-632, 2016 (Journal Indexed in SCI)
- **Finding the fuzzy solutions of a general fully fuzzy linear equation system**
Kocken H., AHLATCIOĞLU M., Albayrak I.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.30, pp.921-933, 2016 (Journal Indexed in SCI)
- **Game theory and fuzzy programming approaches for bi-objective optimization of reservoir watershed management: a case study in Namazgah reservoir**
Ucler N., Engin G., Köçken H., Oncel M. S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, pp.6546-6558, 2015 (Journal Indexed in SCI)
- **A Compensatory Approach to Multiobjective Linear Transportation Problem with Fuzzy Cost Coefficients**
Kocken H., AHLATCIOĞLU M.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- **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.2, pp.77-88, 2019 (Journal Indexed in ESCI)
- **Using some fuzzy aggregation operators for multi objective linear transportation problem**
Köçken H., Tiryaki F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.32, pp.399-421, 2014 (National Refreed University Journal)

- **Üniversite ders zaman çizelgeleme problemi için ikili tamsayılı bir model ve bir uygulama**
Köçken H., Özdemir R., Ahlatcıoğlu M.
İstanbul Üniversitesi, İşletme Fakültesi Dergisi, vol.43, pp.28-54, 2014 (National Refreed University Journal)
- **A Compensatory Fuzzy Approach to Multi Objective Linear Transportation Problem with Fuzzy Parameters**
Köçken H., Özkök B., Tiryaki F.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.7, pp.369-386, 2014 (Refereed Journals of Other Institutions)
- **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 (Refereed Journals of Other Institutions)
- **A Compensatory Approach to Multi objective Interval Transportation Problem**
KÖÇKEN H., AHLATCIOĞLU M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.31, pp.20-33, 2013 (Other Refereed National Journals)

Book & Book Chapters

- **in: Handbook of Research on Transdisciplinary Knowledge Generation**
Köçken H., Albayrak F. İ.
A Short Review on Fuzzy System of Linear Equations Applications, Victor X. Wang, Editor, IGI Global Disseminator of Knowledge, Pennsylvania, pp.75-87, 2019
- **in: Encyclopedia of Information Science and Technology, Third Edition**
Köçken H., Albayrak F. İ.
A Short Review on Fuzzy System of Linear Equations , Mehdi Khosrow-Pour D.B.A., Editor, IGI Global, Pennsylvania, pp.6981-6989, 2015
- **in: Encyclopedia of Information Science and Technology, Third Edition**
Köçken H., Özkök B.
A Short Review of Multi Criteria Decision Making Approaches for Supplier Selection Problem, Mehdi Khosrow-Pour D.B.A., Editor, IGI Global, Pennsylvania, pp.4961-4969, 2015

Refereed Congress / Symposium Publications in Proceedings

- **An Algorithm for Solving Pure Integer Linear Programming Problems**
Şimşek Alan K., Sivri M., Albayrak F. İ. , Köçken H.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM 2019, İstanbul, Turkey, 10 - 13 Mart 2019, pp.160
- **On the Solution of a Fully Fuzzy Transportation Problem**
Köçken H.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM 2019, İstanbul, Turkey, 10 - 13 Mart 2019, pp.150
- **A Mixed Integer Modelling of a Shift Scheduling Problem in a Call Center**
Vural A., Köçken H.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 10 - 13 Mart 2019, pp.147
- **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 Ekim 2018, pp.112
- **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 Haziran 2018, pp.13

- **User-Optimum Fuzzy Traffic Assignment Problem**

Temelcan G., Albayrak F. İ. , Köçken H.

13th Balkan Conference on Operational Research (BALCOR'18), Belgrade, Serbia And Montenegro, 25 - 28 Mayıs 2018, pp.57

- **Fuzzy Analysis of a traffic assignment problem**

TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.

37. YÖNEYLEM ARAŞTIRMASI VE ENDÜSTRİ MÜHENDİSLİĞİ ULUSAL KONGRESİ, Turkey, 5 - 07 Temmuz 2017

- **FUZZY EQUILIBRIUM ANALYSIS OF A TRANSPORTATION NETWORK PROBLEM**

TEMELCAN G., KÖÇKEN H., ALBAYRAK F. İ.

IFSCOM, Mersin, Turkey, 29 Ağustos - 01 Eylül 2016

- **On the Solution of a nxn Fully Fuzzy Linear Equation System with Triangular Fuzzy Numbers**

Ahlatcıoğlu M., Albayrak F. İ. , Köçken H., Özkök B.

ICWOMA (International Conference and Workshop On Mathematical Analysis), Kuala-Lumpur, Malaysia, 27 - 30 Mayıs 2014, pp.36

- **Fuzzy approaches to supplier selection problem**

Özkök B., Köçken H.

International Conference on Mathematical Sciences and Istatistic 2013, (ICMSS 2013), Kuala-Lumpur, Malaysia, 5 - 07 Şubat 2013, vol.1557, pp.355-360

- **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 Şubat 2013, vol.1557, pp.339-344

- **A Fuzzy Approach to Closed Loop Supply Chain using Mixed-Integer Linear Programming**

Özkök B., Köçken H., Budak E.

International Conference on Applied Analysis and Algebra ICAAA 2012, İstanbul, Turkey, 20 Haziran 2012, pp.76

- **Using some fuzzy aggregation operators for Multi-Objective Linear Transportation Problem**

Köçken H., Tiryaki F.

International Conference on Applied Analysis and Algebra (ICAAA 2011), İstanbul, Turkey, 29 Haziran - 02 Temmuz 2011, pp.250

- **A Compensatory Approach to Fuzzy Shortest Path Problem**

Köçken H., Ahlatcıoğlu M., Tiryaki F.

1st International Fuzzy Systems Symposium, Ankara, Turkey, 1 - 02 Ekim 2009, pp.1-12

- **A Compensatory Fuzzy Approach to Multiobjective Solid Transportation Problem**

Tiryaki F., Köçken H.

Mathematical Methods in Engineering International Symposium (MME-06), Ankara, Turkey, 27 - 29 Nisan 2006, pp.1-10

- **A Compensatory Fuzzy Approach to Multiple Objective Linear Transportation Problem**

Tiryaki F., Köçken H.

Innovations in Intelligent Systems and Applications, INISTA'2005, İstanbul, Turkey, 15 - 18 Ekim 2005, pp.79-82

Supported Projects

ÖZKÖK B., AHLATCIOĞLU M., KÖÇKEN H., Project Supported by Higher Education Institutions, Tam Bulanık Lineer Programlama Problemine Bir Çözüm Önerisi, 2014 - 2017

KÖÇKEN H., Project Supported by Higher Education Institutions, Tam Bulanık Mxn lik Lineer Denklem Sistemlerinin Çözümü İçin Bir Karma Tamsayılı Programlama Yaklaşımı, 2013 - 2016

Invited Congress and Symposium Activities

1st International Fuzzy Systems Symposium, Working Group, Ankara, Turkey, 2009

Mathematical Methods in Engineering International Symposium, Working Group, Ankara, Turkey, 2006

Innovations in Intelligent Systems and Applications, INISTA'2005, , Working Group, İstanbul, Turkey, 2005

Citations

Total Citations (WOS):27

h-index (WOS):3