

Prof. Sırma Zeynep ALPARSLAN GÖK

Personal Information

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Biography

Dr. Sırma Zeynep ALPARSLAN GÖK was born 1980 in Ankara-Turkey. She works as a full time professor at Department of Mathematics, Faculty of Arts and Sciences, Süleyman Demirel University in Isparta-Turkey. She holds PhD at Institute of Applied Mathematics (Middle East Technical University, Turkey) in Scientific Computing and BSc (Ankara University, Turkey) in Mathematics. Her research interests are Cooperative Game Theory, Operations Research, Optimization and Scientific Computing. She has co-authored research papers at various journals, book chapters and conference proceedings. She leads as a guest editor in several special issues and book projects. She is in editorial board of International Journal of Supply and Operations Management.

Education Information

Doctorate, Middle East Technical University, Uygulamalı Matematik Enstitüsü, Bilimsel Hesaplama Bölümü, Turkey 2002 - 2009

Under Graduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Cooperative Interval Games (İşbirlikçi Aralık Oyunları), Middle East Technical University, Uygulamalı Matematik Enstitüsü, Bilimsel Hesaplama, 2009

Research Areas

Mathematics, Optimization, Game Theory, Natural Sciences

Academic Titles / Tasks

Associate Professor, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, 2015 - Continues

Assistant Professor, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, 2010 - 2015

Research Assistant PhD, Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, 2009 - 2010

Research Assistant, Middle East Technical University, Uygulamalı Matematik Enstitüsü, Bilimsel Hesaplama, 2004 - 2009

Courses

Coğrafi istatistik, Under Graduate, 2016 - 2017
Bilgisayar Programlama 1, Under Graduate, 2016 - 2017
Yöneylem Araştırması Oyunları, Post Graduate, 2016 - 2017
Matematiksel iktisat, Under Graduate, 2017 - 2018
Sayısal Çözümleme, Under Graduate, 2016 - 2017
Optimizasyon Teorisi, Post Graduate, 2016 - 2017
Bilgisayar Programlama 2, Under Graduate, 2016 - 2017
Oyun Teorisine Giriş, Post Graduate, 2016 - 2017

Advising Theses

ALPARSLAN GÖK S. Z. , Akran grup oyunlarının gri sistem teorisi ile modellenmesi, Post Graduate, Z.Yücesan(Student), 2017
ALPARSLAN GÖK S. Z. , Üç eş probleminin işbirlikçi oyun teorisi ile modellenmesi, Post Graduate, A.Gül(Student), 2017
ALPARSLAN GÖK S. Z. , Solving connection problems in mountains by cooperative game theory, Post Graduate, H.Alzaki(Student), 2016
ALPARSLAN GÖK S. Z. , Sıralama oyunlarının gri sistem teorisi ile modellenmesi, Post Graduate, Ş.Nizamoğlu(Student), 2016
ALPARSLAN GÖK S. Z. , Hava alanı problemleri ve dizisel eşit katkılar kuralı üzerine, Post Graduate, E.Ülgen(Student), 2016
ALPARSLAN GÖK S. Z. , İŞBİRLİKÇİ ARALIK OYUNLARI: ARALIK ÇÖZÜMLERİNİN AKSİYOMATİK KARAKTERİZASYONLARI VE BAZI UYGULAMALAR, Doctorate, O.Palancı(Student), 2016
ALPARSLAN GÖK S. Z. , İflas Problemlerinin Oyun Teorisi ile Çözümü Üzerine, Post Graduate, A.Sarıarslan(Student), 2013

Jury Memberships

Doctoral Examination, Yüksel Yalçınkaya, Matematik Bölümü, Süleyman Demirel Üniversitesi, November, 2017
Doctorate, Mehmet Onur Olgun, SDÜEndüstri Mühendisliği, Doktora tez savunması, Süleyman Demirel Üniversitesi, May, 2017
Doctorate, Osman Palancı, Doktora Tez Savunması, SDÜ Matematik Bölümü, Süleyman Demirel Üniversitesi, February, 2016

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

- I. **AN APPLICATION OF CRYPTO CLOUD COMPUTING IN SOCIAL NETWORKS BY COOPERATIVE GAME THEORY**
Ergun S., KIRLAR B. B. , ALPARSLAN GÖK S. Z. , Weber G.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.16, no.4, pp.1927-1941, 2020 (Journal Indexed in SCI)
- II. **PERFORMANCE ANALYSIS OF A COOPERATIVE FLOW GAME ALGORITHM IN AD HOC NETWORKS AND A COMPARISON TO DIJKSTRA'S ALGORITHM**
Ergun S., ALPARSLAN GÖK S. Z. , Aydogan T., Weber G. W.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.15, no.3, pp.1085-1100, 2019 (Journal Indexed in SCI)

- III. **A Game Theoretical Approach to Crypto Cloud Computing and Its Economical and Financial Aspects**
KIRLAR B. B. , ERGÜN S., ALPARSLAN GÖK S. Z. , Weber G. W.
ANNALS OF OPERATIONS RESEARCH, vol.260, pp.217-231, 2018 (Journal Indexed in SCI Expanded)
- IV. **Conic scalarization approach to solve multi-choice multi-objective transportation problem with interval goal**
Roy S. K. , Maity G., Weber G. W. , ALPARSLAN GÖK S. Z.
ANNALS OF OPERATIONS RESEARCH, vol.253, no.1, pp.599-620, 2017 (Journal Indexed in SCI)
- V. **Facility Location Situations and Related Games in Cooperation**
PALANCI O., ALPARSLAN GÖK S. Z.
SPATIAL INTERACTION MODELS: FACILITY LOCATION USING GAME THEORY, vol.118, pp.247-260, 2017 (Journal Indexed in SCI)
- VI. **Transportation interval situations and related games**
PALANCI O., GOK S. Z. A. , OLGUN M. O. , Weber G. -.
OR SPECTRUM, vol.38, no.1, pp.119-136, 2016 (Journal Indexed in SCI)
- VII. **Cooperative grey games and an application on economic order quantity model**
OLGUN M. O. , GOK S. Z. A. , ÖZDEMİR G.
KYBERNETES, vol.45, no.5, pp.828-838, 2016 (Journal Indexed in SCI)
- VIII. **Cooperative grey games and the grey Shapley value**
PALANCI O., Gok S. Z. A. , Ergun S., Weber G. -.
OPTIMIZATION, vol.64, no.8, pp.1657-1668, 2015 (Journal Indexed in SCI)
- IX. **Cooperative games under bubbly uncertainty**
PALANCI O., Gok S. Z. A. , Weber G. -.
MATHEMATICAL METHODS OF OPERATIONS RESEARCH, vol.80, no.2, pp.129-137, 2014 (Journal Indexed in SCI)
- X. **On the interval Shapley value**
Gok S. Z. A.
OPTIMIZATION, vol.63, no.5, pp.747-755, 2014 (Journal Indexed in SCI)
- XI. **Some results on cooperative interval games**
Gok S. Z.
OPTIMIZATION, vol.63, no.1, pp.7-13, 2014 (Journal Indexed in SCI)
- XII. **Sequencing interval situations and related games**
Alparslan-Gok S. Z. , BRANZEI R., FRAGNELLÌ V., TIJS S.
CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol.21, no.1, pp.225-236, 2013 (Journal Indexed in SCI)
- XIII. **Connection situations under uncertainty and cost monotonic solutions**
Moretti S., ALPARSLAN GÖK S. Z. , Branzei R., Tijss S.
COMPUTERS & OPERATIONS RESEARCH, vol.38, no.11, pp.1638-1645, 2011 (Journal Indexed in SCI)
- XIV. **HOW TO HANDLE INTERVAL SOLUTIONS FOR COOPERATIVE INTERVAL GAMES**
Branzei R., Tijss S., Gok S. Z. A.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, vol.18, no.2, pp.123-132, 2010 (Journal Indexed in SCI)
- XV. **Cooperation under interval uncertainty**
Alparslan-Goek S. Z. , MÍQUEL S., Tijss S. H.
MATHEMATICAL METHODS OF OPERATIONS RESEARCH, vol.69, no.1, pp.99-109, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **SEQUENCING GREY GAMES**
Ergun S., PALANCI O., ALPARSLAN GÖK S. Z. , Nizamoglu S., Weber G. W.
JOURNAL OF DYNAMICS AND GAMES, vol.7, no.1, pp.21-35, 2020 (Journal Indexed in ESCI)
- II. **A COOPERATIVE GAME THEORETICAL MODEL IN TEMPORARY HOUSING FOR POST-DISASTER**

SITUATIONS

USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.

Mühendislik Bilimleri ve Tasarım Dergisi, 2019 (Refereed Journals of Other Institutions)

- III. **Airport Situations and Games with Grey Uncertainty**
QASIM E., ALPARSLAN GÖK S. Z. , PALANCI O., WEBER G. W.
International journal of industrial engineering and operational research, 2019 (Refereed Journals of Other Institutions)
- IV. **An Application of Cooperative Grey Games to Post-Disaster Housing Problem**
QASIM E., ALPARSLAN GÖK S. Z. , PALANCI O.
International Journal of Supply and Operations Management, 2019 (Refereed Journals of Other Institutions)
- V. **On the grey equal surplus sharing solutions**
YILMAZ a., ALPARSLAN GÖK S. Z. , EKİCİ M., PALANCI O.
International Journal of Supply and Operations Management (IJSOM), 2018 (Refereed Journals of Other Institutions)
- VI. **The grey Shapley value: an axiomatization**
EKİCİ M., PALANCI O., ALPARSLAN GÖK S. Z.
IOP Conference Series: Materials Science and Engineering, 2018 (Refereed Journals of Other Institutions)
- VII. **Cooperative Grey Games: Grey Solutions and Optimization Algorithm**
PALANCI O., OLGUN M. O. , Ergun S., ALPARSLAN GÖK S. Z. , WEBER G. -.
International Journal of Supply and Operations Management, vol.4, no.3, pp.202-215, 2017 (Refereed Journals of Other Institutions)
- VIII. **GRİ STOK MODELİNİN İŞBİRLİKÇİ OYUN TEORİSİ İLE MALİYET DAĞITIMLARININ İNCELENMESİ**
OLGUN M. O. , ÖZDEMİR G., ALPARSLAN GÖK S. Z.
Uludağ University Journal of The Faculty of Engineering, vol.22, no.2, pp.23-34, 2017 (Refereed Journals of Other Institutions)
- IX. **Cooperative Grey Games: Grey Solutions and an Optimization Algorithm**
PALANCI O., OLGUN M. O. , ERGÜN S., ALPARSLAN GÖK S. Z. , WEBER G. W.
International Journal of Supply and Operations Management (IJSOM), 2017 (Refereed Journals of Other Institutions)
- X. **Gri stok modelinin işbirlikçi oyun teorisi ile maliyet dağıtımlarının İncelenmesi**
OLGUN M. O. , ÖZDEMİR G., ALPARSLAN GÖK S. Z.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, 2017 (Other Refereed National Journals)
- XI. **Alternative Axiomatic Characterizations of the Grey Shapley Value**
PALANCI O., ALPARSLAN GÖK S. Z.
International Journal of Supply and Operations Management, vol.1, no.1, pp.69-80, 2017 (Refereed Journals of Other Institutions)
- XII. **Energy Efficient WSN System of Inter Satellite Communication For Space Debris by Using Cooperative Game Theory Volume 4 Issue 2 Nov 2016 Page 11 16**
ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.
International Journal of Soft Computing And Artificial Intelligence (IJSCAI), 2016 (Refereed Journals of Other Institutions)
- XIII. **An Overview of Game Theory and its Applications in Network Routing AKÜ FEMÜBİD 16 2016 196 204**
ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.
AKÜ Fen ve Mühendislik Bilimleri Dergisi, 2016 (Other Refereed National Journals)
- XIV. **A Study on Performance Evaluation of Some Routing Algorithms Modeled by Game Theory Approach AKÜ FEMÜBİD 16 2016 170 176**
ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.
AKÜ Fen ve Mühendislik Bilimleri Dergisi, 2016 (Other Refereed National Journals)
- XV. **Crypto Cloud Computing and Its Economical and Financial Aspects with Cooperative Game Theory**
ERGÜN S., ALPARSLAN GÖK S. Z. , KIRLAR B. B. , WEBER G. W.

International Federation of Operational Research Societies (IFORS) News, vol.9, no.4, pp.19-21, 2015 (Non-Refereed Journal)

- XVI. **On The Characterizations of The Interval Sequential Equal Contributions Rule**
ALPARSLAN GÖK S. Z. , PALANCI O., ÜLGEN E.
Süleyman Demirel Üniversitesi Fen Dergisi (e-Dergi), vol.10, no.2, pp.122-129, 2015 (Other Refereed National Journals)
- XVII. **An axiomatization of the interval Shapley value and on some interval solution concepts**
PALANCI O., ALPARSLAN GÖK S. Z. , WEBER G. W.
Contributions to Game Theory and Management, 2015 (Refereed Journals of Other Institutions)
- XVIII. **Airport Interval Games and Their Shapley Value**
ALPARSLAN GÖK S. Z. , Branzei R., Tijs S.
Operations Research and Decisions, 2009 (Refereed Journals of Other Institutions)
- XIX. **Convex interval games**
ALPARSLAN GÖK S. Z. , Branzei R., Tijs S.
Journal of Applied Mathematics and Decision Sciences, 2009 (Refereed Journals of Other Institutions)
- XX. **Some Characterizations of Convex Interval Games**
Branzei R., Tijs S., ALPARSLAN GÖK S. Z.
AUCO Czech Economic Review, 2008 (Refereed Journals of Other Institutions)
- XXI. **Bankruptcy problems with interval uncertainty**
Branzei R., ALPARSLAN GÖK S. Z.
Economics Bulletin, vol.3, no.56, pp.1-10, 2008 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **A cooperative game theory approach to post disaster housing problem**
USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.
in: Handbook of Research on Emergent Applications of Optimization Algorithms, , Editor, IGI Global, 2018
- II. **Peer Group Situations and Games with Grey Uncertainty**
ALPARSLAN GÖK S. Z. , PALANCI O., YÜCESAN Z.
in: Handbook of Research on Emergent Applications of Optimization Algorithms, , Editor, IGI Global, 2018
- III. **Facility Location Situations and Related Games in Cooperation**
PALANCI O., ALPARSLAN GÖK S. Z.
in: Spatial Interaction Models, Lina Mallozzi, Egidio D'xxAmato, Panos M. Pardalos, Editor, Springer International Publishing, CHAM, pp.247-260, 2017
- IV. **Using Game Theory Application to Catastrophic Events**
USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.
in: Societal Complexity, Data Mining and Gaming State of the art, DeTombe Dorien , Weber Gerhard-Wilhelm, Kuter Semih, Editor, Greenhill Waterfront, 2017
- V. **An optimization-based algoritihm Finding the Grey Core Element of Cooperative Grey Games**
OLGUN M. O. , ALPARSLAN GÖK S. Z.
in: Societal Complexity, Data Mining and Gaming State-of-the-Art 2017, Dorien DeTombe, Gerhard-Wilhelm Weber and Semih Kuter, Editor, Amsterdam Europe: Greenhill Waterfront, pp.69-73, 2017
- VI. **An Optimization-based Algorithm Finding the Grey Core element of Cooperative Grey Games**
OLGUN M. O. , ALPARSLAN GÖK S. Z.
in: Societal Complexity, Data Mining and Gaming State-of-the-Art, Dorien DeTombe, Gerhard Wilhelm Weber and Semih Kuter (, Editor, Greenhill Waterfront, 2017
- VII. **Cooperative Interval Games Theory and Applications**
ALPARSLAN GÖK S. Z.
Lap-Lambert Academic Publishing House, Saarbrücken, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **Grey Baker Thompson Rule**
PALANCI O., OLGUN M. O. , WEBER G. W. , ALPARSLAN GÖK S. Z.
ORM 2018 IX Moscow International Conference On Operations Research, 22 - 27 October 2018
- II. **Grey Transportation Games**
OLGUN M. O. , PALANCI O., QASIM E., WEBER G. W. , ALPARSLAN GÖK S. Z.
ORM 2018 IX Moscow International Conference On Operations Research, 22 - 27 October 2018
- III. **Waste management in the construction industry**
USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.
EJONS International Congress on mathematic, engineering, natural health sciences I, 11 - 14 August 2018
- IV. **Using game theory applications for assesment emergency management situations**
ERGÜN S., USTA P., ALPARSLAN GÖK S. Z.
EJONS International Congress on mathematic, engineering, natural health sciences IV, 11 - 14 August 2018
- V. **Cooperative Game Theory: An approach for temporary housing problem for post disasters**
ERGÜN S., USTA P., ALPARSLAN GÖK S. Z.
UMTEB 3.Uluslararası mesleki ve teknik bilimler kongresi, 21 - 22 June 2018
- VI. **A new approach for post disaster housing problem after earthquake**
USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.
UMTEB 3. Uluslararası mesleki ve teknik bilimler kongresi, 21 - 22 June 2018
- VII. **The grey Shapley value: an axiomatization**
Ekici M., Palanci O., Gok S. Z. A.
4th International Conference on Operational Research (InteriOR), Medan, Indonesia, 21 - 23 August 2017, vol.300
- VIII. **On Facility Location Interval Games**
EKİCİ M., PALANCI O., ALPARSLAN GÖK S. Z.
10TH INTERNATIONAL STATISTICS CONGRESS (ISC2017), 6 - 08 December 2017
- IX. **Some results on cooperative grey games**
PALANCI O., ALPARSLAN GÖK S. Z. , ALZAKI H., NİZAMOĞLU Ş.
7TH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS(IECMSA-2017), Budapest, Hungary, 28 - 31 August 2017, vol.1, pp.162
- X. **A Study on the Using of Game Theoryin Sustainable Construction**
USTA P., ERGÜN S., ALPARSLAN GÖK S. Z.
3rd International Sustainable Buildings Symposium (ISBS 2017), 15 - 17 March 2017
- XI. **On the Interval Game Theoretic Solutions and Their Axiomatizations**
PALANCI O., ALPARSLAN GÖK S. Z. , YILMAZ BÜYÜKYAĞCI A. G.
6th INTERNATIONAL YOUTH SCIENCE FORUM "LITTERIS ET ARTIBUS", 24 - 26 November 2016
- XII. **Energy Efficient WSN system of inter satellite communication for space debris by using cooperative game theory Proceedings of ISER International Society for Engineers and Researchers international conference September 25 26 2016 Brussels Belgium**
ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.
ISER (International Society for Engineers and Researchers) international conference, 25 - 26 September 2016
- XIII. **Transportation Situations And Related Games with Interval Uncertainty sayfa 173 ICRAPAM2016 19 23 Mayıs 2016 Bodrum Turkey http www icrapam org topics html**
PALANCI O., ALPARSLAN GÖK S. Z. , Nizamoğlu Ş., Alzaki H.
ICRAPAM 2016, 19 - 23 May 2016
- XIV. **Transportation Situations and Related Games with Interval Uncertainty**
PALANCI O., ALPARSLAN GÖK S. Z. , ALZAKI H., NİZAMOĞLU Ş.
3rd International Conference on Recent Advances in Pure and Applied Mathematics, 19 - 23 May 2016
- XV. **An Overview of Game Theory and its Applications in Network Routing The International Conference On Engineering Technology And Applied Sciences April 21 22 2016 Afyonkarahisar Turkey**
ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.

International Conference On Engineering Technology And Applied Sciences, 21 - 22 April 2016

- XVI. **A Study on Performance Evaluation of Some Routing Algorithms Modeled by Game Theory Approach**
International Conference on Engineering Technology and Applied Sciences April 21 22 2016
Afyonkarahisar Turkey

ERGÜN S., AYDOĞAN T., ALPARSLAN GÖK S. Z.

International Conference on Engineering Technology and Applied Sciences, 21 - 22 April 2016

- XVII. **Cooperative Grey Inventory Games**

OLGUN M. O. , ÖZDEMİR G., ALPARSLAN GÖK S. Z. , TEKİN H. O.

European Meeting on Game Theory, 6 - 08 July 2015

- XVIII. **An axiomatization of the interval Shapley value and on some interval solution concepts**

PALANCI O., ALPARSLAN GÖK S. Z. , WEBER G. W. , KARA Ü.

European Meeting on Game Theory (SING11-GTM2015), Saint Peter, Guernsey And Alderney, 8 - 10 July 2015, vol.8, pp.243-251

- XIX. **A new axiomatization of the interval Shapley value**

PALANCI O., ALPARSLAN GÖK S. Z. , WEBER G. W. , KARA Ü.

SING11-GTM2015, EUROPEAN MEETING ON GAME THEORY, 8 - 10 July 2015

- XX. **An Axiomatization of the Interval Shapley Value and on Some Interval Solution Concepts**

PALANCI O., ALPARSLAN GÖK S. Z. , WEBER G. W.

The Eighth International Conference Game Theory and Management, 25 - 27 June 2014, vol.8, pp.243-251

- XXI. **A Game Theoretical Approach to Crypto Cloud Computing and Its Economical and Financial Aspects**

ERGÜN S., ALPARSLAN GÖK S. Z. , KIRLAR B. B.

55th meeting of the EWGCFM, 14 - 16 May 2015

- XXII. **Interval Obligation Rules and Related Results**

PALANCI O., ALPARSLAN GÖK S. Z. , Weber G. W.

7th International Conference on Game Theory and Management, St Petersburg, Russia, 26 - 28 June 2013, vol.7, pp.262-270

Supported Projects

ALPARSLAN GÖK S. Z. , Project Supported by Other Official Institutions, İşbirlikçi Aralık Oyunları: Aralık Çözümlerinin Aksiyomatik Karakterizasyonları ve Bazı Uygulamalar, 2013 - 2016

Activities in Scientific Journals

International Journal of Supply and Operations Management IJSOM , Committee Member, 2014 - Continues

Citations

Total Citations (WOS):134

h-index (WOS):7