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Learning Knowledge

Doctorate 2020 - Continues	Galatasaray University, Fen Bilimleri Enstitüsü, Turkey
Postgraduate 2017 - 2020	Galatasaray University, Fen Bilimleri Enstitüsü, Turkey
Undergraduate Double Major	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği,
2015 - 2018	Turkey
Undergraduate	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar
2012 - 2017	Mühendisligi, Turkey

Dissertations

Postgraduate, Multi-objective decision-making approach for nuclear power plant installation, Galatasaray University, Fen Bilimleri Enstitüsü, 2020

Academic Titles / Tasks

Research Assistant 2019 - Continues	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
Researcher	Universite de Lorraine, Laboratoire de Conception, Optimisation et Modélisation
2024 - 2024	des Systèmes (LCOMS)
Researcher	Université Paris-Dauphine: Paris IX, Laboratoire d'analyse et modélisation de
2023 - 2024	systèmes pour l'aide à la décision (LAMSADE)
Researcher	Université Pascal Paoli: Corse, Laboratory Sciences Pour l'Environnement, UMR
2022 - 2022	CNRS 6134 SPE, Group: "IT Simulation and Ubiquitous Systems"

Supported Projects

- 1. DEMİRCİOĞLU M. E., ULUKAN H. Z., ÇAKIR E., Project Supported by Higher Education Institutions, Industrial Engineering applications on Fuzzy Logic Environment, 2022 2023
- 2. ULUKAN H. Z., ÇAKIR E., Project Supported by Higher Education Institutions, Endüstri Mühendisliğinde Bulanık Küme Uygulamaları, 2020 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. CIRCULAR INTUITIONISTIC FUZZY DECISION MAKING AND ITS APPLICATION

Çakir E., Taş M. A.

EXPERT SYSTEMS WITH APPLICATIONS, vol.0, no.0, pp.1-34, 2023 (SCI-Expanded)

2. Spherical bipolar fuzzy weighted multi-facility location modeling for mobile COVID-19 vaccination clinics

Çakır E., Taş M. A., Ulukan H. Z.

Journal Of Intelligent & Fuzzy Systems, vol.0, no.0, pp.1-14, 2022 (SCI-Expanded)

3. Intuitionistic fuzzy multi-objective milk-run modelling under time window constraints

Çakır E., Ulukan H. Z., Kahraman C., Ölçer Sağlam C., Kuleli Pak B., Pekcan B.

Journal Of Intelligent & Fuzzy Systems, vol.0, no.0, pp.1-16, 2022 (SCI-Expanded)

4. Time-dependent Dijkstra's algorithm under bipolar neutrosophic fuzzy environment

ÇAKIR E., Ulukan Z., ACARMAN T.

Journal of Intelligent and Fuzzy Systems, vol.42, no.1, pp.227-236, 2022 (SCI-Expanded)

5. A Hybrid Kruskal's Algorithm Based on Intuitionistic Fuzzy with Hamacher Aggregation Operator for Road Planning

Çakır E., Ulukan H. Z.

International Journal of Fuzzy Systems, vol.23, no.4, pp.1003-1016, 2021 (SCI-Expanded)

6. Fuzzy multi-objective decision making approach for nuclear power plant installation

ÇAKIR E., Ulukan Z.

JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.39, no.5, pp.6339-6350, 2020 (SCI-Expanded)

Articles Published in Other Journals

1. A Hybrid Machine Learning and Fuzzy Inference Approach with UAV for Indoor Virus Contamination Risk

Çakır E., Erdi F., Demircioğlu M. E., Taş M. A.

International Journal of Engineering and Technology, vol.15, no.3, pp.94-99, 2023 (Peer-Reviewed Journal)

2. Covid-19 Geçici Aşılama Kliniklerinin Atanmasına Sezgisel Bir Yaklaşım

Çakır E., Taş M. A.

European Journal of Science and Technology, vol.34, pp.360-366, 2022 (Peer-Reviewed Journal)

3. Circular Intuitionistic Fuzzy Multi-Criteria Decision Making Methodology

Çakır E., Taş M. A.

Avrupa Bilim ve Teknoloji Dergisi, no.28, pp.900-905, 2021 (Peer-Reviewed Journal)

4. Green Supplier Selection Using Game Theory Based on Fuzzy SWARA

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Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, pp.1-14, 2021 (Peer-Reviewed Journal)

5. SPHERICAL FUZZY SWARA-MARCOS APPROACH FOR GREEN SUPPLIER SELECTION

Taş M. A., Çakır E., Ulukan H. Z.

3C Tecnología, pp.115-133, 2021 (ESCI)

6. WEB CONFERENCING SOFTWARE SELECTION WITH INTERVAL-VALUED FUZZY PARAMETERIZED

INTUITIONISTIC FUZZY SOFT SETS

Çakır E., Ulukan H. Z.

3C Tecnología, pp.53-65, 2021 (ESCI)

7. RELIABILITY ANALYSIS WITH SPHERICAL FUZZY SETS

Çakır E., Ulukan H. Z.

Mühendislik ve Tasarım Bilimleri Dergisi, vol.9, no.1, pp.230-239, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

1. A Hybrid Fuzzy MCDM Approach for Sustainable Health Tourism Sites Evaluation

Taş M. A., Çakır E.

in: Handbook of Research on Advances and Applications of Fuzzy Sets and Logic, Said Broumi, Editor, IGI Global, Tunis, pp.77-104, 2022

2. Digitalization on Aviation 4.0: Designing a Scikit-Fuzzy Control System for In-Flight Catering Customer Satisfaction

Çakır E., Ulukan H. Z.

in: Intelligent and Fuzzy Techniques in Aviation 4.0, Kahraman C., Aydın S., Editor, Springer, London/Berlin, London, pp.123-146, 2022

3. Bipolar Neutrosophic Fuzzy Dijkstra Algorithm and Its Application

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in: Intelligent and Fuzzy Techniques: Smart and Innovative Solutions, Kahraman C.,Cevik Onar S.,Oztaysi B.,Sari I.,Cebi S.,Tolga A., Editor, Springer-Verlag , Zürich, pp.311-318, 2020

4. A* Algorithm Under Single-Valued Neutrosophic Fuzzy Environment

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5. A S-QFD Approach with Bipolar Fuzzy Hamacher Aggregation Operators and Its Application on E-Commerce

Çakır E., Ulukan H. Z.

in: Information Processing and Management of Uncertainty in Knowledge-Based Systems, Marie-Jeanne LesotSusana VieiraMarek Z. ReformatJoão Paulo CarvalhoAnna WilbikBernadette Bouchon-MeunierRonald R. Yager, Editor, Springer-Verlag, Zürich, pp.577-587, 2020

Refereed Congress / Symposium Publications in Proceedings

1. Milk-run optimization under time windows for collection and replacement of low-charge e-scooters Çakır E., İzcan Ö., Demircioğlu M. E.

Research and Technologies for Society and Industry (RTSI 2024), Milan, Italy, 18 - 20 September 2024, pp.1-6

2. Multi-Criteria Evaluation of Battery Electric Vehicles via Circular Intuitionistic Fuzzy PROMETHEE Çakır E., Demircioğlu M. E.

IEEE 18th International Symposium on Applied Computational Intelligence and Informatics, Budapest, Hungary, 22 - 27 May 2024, pp.1-5

3. New Multi Criteria Decision Making Methodology EFEE under Uncertainty on Paris City Micromobility

Çakır E., Tolga A. Ç.

Intelligent and Fuzzy Systems (INFUS 2024), Çanakkale, Turkey, 16 - 18 July 2024, pp.1-8

4. Micromobility Evaluation in Istanbul: A Critical Review

Çakir E.

3rd International Graduate Research Symposium (IGRS'24), İstanbul, Turkey, 8 - 10 May 2024, pp.1-5

5. Reviewing Micromobility Modes of Paris City by novel MCDM Approach: Extracted Framework Element Effect (EFEE)

Çakır E., Tolga A. Ç.

33rd European conference on Operational Research (EURO 2024), Kobenhavn, Denmark, 30 June - 03 July 2024, pp.1

6. Circular Intuitionistic Fuzzy AHP for Micromobility Evaluation

Çakır E.

27TH INTERNATIONAL CONFERENCE ON MULTIPLE CRITERIA DECISION MAKING (MCDM2024), Tunis, Tunisia, 2 - 07 June 2024, pp.1

7. Fuzzy Extracted Framework Element Effect (Fuzzy-EFEE) Methology

Çakır E.

27TH INTERNATIONAL CONFERENCE ON MULTIPLE CRITERIA DECISION MAKING (MCDM2024), Tunis, Tunisia, 2 - 07 June 2024, pp.1

8. Criteria Weighting of Micromobility Modes via Extracted Framework Element Effect (EFEE) Methodology

Çakir E.

2024 Systems and Information Engineering Design Symposium (SIEDS), Virginia, United States Of America, 03 May 2024, pp.195-199

9. Micromobility Evolution of İstanbul

Çakir E.

13. Ulusal Lojistik ve Tedarik Zinciri Kongresi (ULTZK 2024), Afyonkarahisar, Turkey, 16 - 18 May 2024, pp.1

10. Novel Criteria Weighting Methodology EFEE: A Case of Micromobility Modes Assessment in Istanbul Çakir E.

10th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2024), Angers, France, 2 - 04 May 2024, pp.1-5

11. Lot Sizing Problem with Fuzzy Capacitated Energy Sources

Çakır E., Akbalık A.

International Conference on Sustainability in Energy and Buildings SEB-23, Bari, Italy, 18 September 2023

12. Performance Evaluation of Green Ports via C-IFS AHP: A Case Study in Turkey

Taş M. A., Çakır E.

The 17th International Conference on Business Excellence (ICBE 2023), Bucuresti, Romania, 22 - 24 March 2023, pp.1-10

13. Neutrosophic Fuzzy Selected Element Reduction Approach (NF-SERA): Assessment of E-Scooter Parking Area

ÇAKIR E.

 $2023\ \text{IEEE Symposium Series on Computational Intelligence (SSCI), meksico city, Mexico, 5-08\ \text{December 2023, vol.1, pp.} \\ 1234-1238$

14. EVALUATION OF BRANDS' SOCIAL MEDIA MARKETING PERFORMANCE DURING COVID PANDEMIC: A CASE OF FAST FOOD CHAINE

Seğmenoğlu F., Çakır E.

BİLTEK-VIII INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES, Paris, France, 24 October 2023, pp.219-227

15. IoT Feature Assessment for Smart Cities via Intuitionistic Fuzzy Selected Element Reduction Approach (IF-SERA)

CAKIR E., DEMİRCİOĞLU M. E.

6th International Conference on Signal Processing and Information Communications, Singapore, Singapore, 25 - 27 February 2023

16. Circular Intuitionistic Fuzzy PROMETHEE Methodology: A Case of Smart Cities Evaluation Çakır E., Demircioğlu M. E.

International Conference on Intelligent and Fuzzy Systems - INFUS 2023, İstanbul, Turkey, 22 - 24 August 2023, pp.353-361

17. A Hybrid Machine Learning and Fuzzy Inference Approach with UAV for Indoor Virus Contamination Risk

Çakır E., Erdi F., Taş M. A., Demircioğlu M. E.

11th International Conference on Nano and Materials Science ICNMS 2023, Singapore, Singapore, 13 - 15 January 2023, pp.1-6

18. **IoT Based Smart Cities Evaluation By Circular Intuitionistic Fuzzy Analytic Hierarchy Process**Cakir E.

International Symposum of the Analytic Herarchy Process 2022, Web Conference, 15 - 18 December 2022, pp.1-5

19. UAV Fuzzy Inference System Design for Covid-19 Infection Risk Assessment

Çakır E., Erdi F.

2022 Innovations in Intelligent Systems and Applications Conference (ASYU), Antalya, Turkey, 7 - 09 September 2022, pp.1-6

20. Fuzzy inference design and machine learning approach for UAV image: case of virus contamination Çakır E., Erdi F.

LMSCM 2022: 20 th International Logistics and Supply Chian Congress , İstanbul, Turkey, 20 - 21 October 2022, pp.1

21. A New Weighting Method in Fuzzy Multi-criteria Decision Making: Selected Element Reduction Approach (SERA)

Çakır E., Taş M. A., Demircioğlu M. E.

2022 NORTH AMERICAN FUZZY INFORMATION PROCESSING SOCIETY CONFERENCE NAFIPS'2022, Halifax, Canada, 31 May - 03 June 2022, pp.1-6

22. Circular Intuitionistic Fuzzy Analytic Hierarchy Process for Remote Working Assessment in Covid-19 Çakır E., Taş M. A.

International Conference on Intelligent and Fuzzy Systems INFUS 2022, İzmir, Turkey, 01 July 2022, pp.1-8

23. Intuitionistic Fuzzy Selected Element Reduction Approach (IF-SERA) on Service Quality Evaluation of Digital Suppliers

Çakır E., Taş M. A., Demircioğlu M. E.

International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems IPMU 2022, Milan, Italy, 11 - 15 July 2022, pp.141-150

24. A New Circular Intuitionistic Fuzzy MCDM: A Case of Covid-19 Medical Waste Landfill Site Evaluation Çakır E., Taş M. A., Ulukan H. Z.

IEEE 21st International Symposium on Computational Intelligence and Informatics (CINTI 2021), Budapest, Hungary, 18 - 20 November 2021, pp.1-5

25. Locating Cell on Wheels in Emergency Using Fuzzy COCOSO and Weighted Minimax Methods Çakır E., Taş M. A., Ulukan H. Z.

LMSCM2021 19th International Logistics and Supply Chain Congress, Gaziantep, Turkey, 21 - 22 October 2021, pp.1

26. Neutrosophic Fuzzy MARCOS Approach for Sustainable Hybrid Electric Vehicle Assessment Çakır E., Taş M. A., Ulukan H. Z.

IEEE SMC 2021, Melbourne, Australia, 17 - 20 October 2021, pp.1-6

27. Ranking Triangular and Trapezoidal Fuzzy MARCOS Methods on Road Risk

Taş M. A., Çakır E.

Conference: 6 th online Forum on Research and Technologies for Society and Industry (IEEE RTSI 2021)At, Naples, Italy, 6 - 09 September 2021, pp.370-375

28. A Fuzzy Modeling for Time Constrained Vehicle Routing Problem

Çakır E., Ulukan H. Z., Kahraman C.

INFUS 2021: Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation , İstanbul, Turkey, 24-26 August 2021, vol. 307, pp. 511-519

29. Cylindrical Neutrosophic Single-Valued Fuzzy MCDM Approach on Electric Vehicle Charging Station Relocation with Time-Dependent Demand

Çakır E., Taş M. A., Ulukan H. Z.

INFUS 2021: Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation , İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.355-363

30. Circular Intuitionistic Fuzzy Sets in Multi criteria Decision Making

Çakır E., Taş M. A., Ulukan H. Z.

11th Conference on Theory and Applications of Soft Computing, Computing with Words and Perceptions, ICSCCW 2021, Antalya, Turkey, 23 - 24 August 2021, pp.1-8

31. Cylindrical Neutrosophic Fuzzy Heuristic Approach to Locate Mobile Pandemic Test Labs

Çakır E., Taş M. A., Ulukan H. Z.

2021 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2021), Luxembourg, Luxembourg, 11 - 14 July 2021, pp.1-6

32. COVID-19 Geçici Test Laboratuvarları Yerleşimi İçin Bulanık Tabanlı Tasarruf Algoritması

Çakır E., Taş M. A., Ulukan H. Z.

40. Yöneylem Araştırması - Endüstri Mühendisliği Kongresi (YAEM 2021), İstanbul, Turkey, 4 - 07 July 2021, pp.87

33. Türkiye'deki Limanların Çevresel Sürdürülebilirlik Performanslarının Bulanık Çok Kriterli Karar Verme Metodu İle Değerlendirilmesi

Taş M. A., Çakır E., Ulukan H. Z.

40. Yöneylem Araştırması - Endüstri Mühendisliği Kongresi (YAEM 2021), İstanbul, Turkey, 4 - 07 July 2021, pp.19

34. Fuzzy Linguistic Prolog on Route Prioritisation

Çakır E.

29th Signal Processing and Communications Applications Conference (SIU 2021), İstanbul, Turkey, 9 - 11 June 2021, pp.1-4

35. Neutrosophic Fuzzy Weighted Saving Heuristic for COVID-19 Vaccination

Çakır E., Taş M. A., Ulukan H. Z.

2021 Systems and Information Engineering Design Symposium (SIEDS), Virginia, United States Of America, 29 - 30 April 2021, pp.1-5

36. An Intuitionistic Fuzzy MCDM Approach Adapted to Minimum Spanning Tree Algorithm for Spreading Content on Social Media

ÇAKIR E., ULUKAN H. Z.

 $11 th\ IEEE\ Annual\ Computing\ and\ Communication\ Workshop\ and\ Conference,\ CCWC\ 2021,\ Nevada,\ United\ States\ Of\ America,\ 27-30\ January\ 2021,\ pp.174-179$

37. Spherical Fuzzy SWARA-MARCOS Approach for Green Supplier Selection

Taş M. A., Çakır E., Ulukan H. Z.

6th International Conference on Recent Trends in Computer Science and Electronics January 5-7, 2021, University of Hawaii, USA, Hawaii, United States Of America, 5 - 07 January 2021, pp.45

38. Web Conferencing Software Selection with IntervalValued Fuzzy Parameterized Intuitionistic Fuzzy Soft Sets

Çakır E., Ulukan H. Z.

6th International Conference on Recent Trends in Computer Science and Electronics January 5-7, 2021, University of Hawaii, USA, Hawaii, United States Of America, 5 - 07 January 2021, pp.42

39. Bipolar Neutrosophic Fuzzy Dijkstra Algorithm and Its Application

ÇAKIR E., ULUKAN H. Z.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, pp.311-318

40. A* Algorithm Under Single-Valued Neutrosophic Fuzzy Environment

ÇAKIR E., ULUKAN H. Z.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, pp.302-310

41. Shortest Fuzzy Hamiltonian Cycle on Transportation Network Using Minimum Vertex Degree and Time-dependent Dijkstra's Algorithm

ÇAKIR E., Ulukan Z., ACARMAN T.

16th IFAC Symposium on Control in Transportation Systems CTS 2021, Lille, France, 8 - 10 June 2021, vol.54,

pp.348-353

42. Sustainable health tourism site selection with a fuzzy linguistic prolog

ÇAKIR E., ULUKAN H. Z.

Developments of Artificial Intelligence Technologies in Computation and Robotics, Cologne, Germany, 18 - 21 August 2020, pp.1456-1463

43. An interval type-2 fuzzy dynamic approach to replacement of server equipment

ÇAKIR E., ULUKAN H. Z.

2020 IEEE International Conference on Fuzzy Systems, FUZZ 2020, Glasgow, United Kingdom, 19 - 24 July 2020

44. A Fuzzy Linguistic Programming for Sustainable Ecotourism Activities

Çakır E., Ulukan H. Z.

IEEE CCWC 2020, Nevada, United States Of America, 6 - 08 January 2020, pp.121-126

45. A S-QFD approach with bipolar fuzzy hamacher aggregation operators and its application on e-commerce

ÇAKIR E., ULUKAN H. Z.

18th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2020, Lisbon, Portugal, 15 - 19 June 2020, pp.577-587

46. Interval Type-2 Fuzzy Reliability Modeling for Recycling Facility

Çakır E., Ulukan H. Z.

2019 4th International Conference on System Reliability and Safety (ICSRS), Rome, Italy, 20 - 22 November 2019, pp.544-548

47. A Fuzzy Logic Programming Environment for Recycling Facility Selection

Çakır E., Ulukan H. Z.

11th International Joint Conference on Computational Intelligence, Vienna, Austria, 17 - 19 September 2019, pp.367-374

48. **DUAL HESITANT PYTHAGOREAN FUZZY APPROACH FOR SUSTAINABLE ECOTOURISM SITE SELECTION** Çakır E., Ulukan H. Z.

ICDSBA 2019: The 3rd Annual International Conference on Data Science and Business Analytics, İstanbul, Turkey, 11 - 12 October 2019, pp.296-301

49. Fuzzy Multi-Objective Decision Making Approach For Nuclear Power Plant Installation

Çakır E., Ulukan H. Z.

INFUS 2019, İstanbul, Turkey, 23 - 25 July 2019, pp.1258-1265

Metrics

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Research Areas

Engineering and Technology

Non Academic Experience

Türk Hava Yolları