

## Res. Asst. ESRA ÇAKIR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-6772-2020

ScopusID: 57210106850

### Education Information

Doctorate, Galatasaray University, Fen Bilimleri Enstitüsü, Turkey 2020 - Continues

Postgraduate, Galatasaray University, Fen Bilimleri Enstitüsü, Turkey 2017 - 2020

Undergraduate Double Major, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi,

Endüstri Mühendisliği, Turkey 2015 - 2018

Undergraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar

Mühendisliği, Turkey 2012 - 2017

### Dissertations

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

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği, 2019 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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 (Peer-Reviewed Journal)
- II. **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 (Peer-Reviewed Journal)
- III. **Time-dependent Dijkstra's algorithm under bipolar neutrosophic fuzzy environment**

Çakır E., Ulukan H. Z. , Acarman T.

Journal Of Intelligent & Fuzzy Systems, vol.0, no.0, pp.1-10, 2022 (Peer-Reviewed Journal)

**IV. 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, 2021 (Peer-Reviewed Journal)

**V. 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 (Peer-Reviewed Journal)

## Articles Published in Other Journals

**I. 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)

**II. 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)

**III. Green Supplier Selection Using Game Theory Based on Fuzzy SWARA**

Taş M. A. , Çakır E.

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

**IV. SPHERICAL FUZZY SWARA-MARCOS APPROACH FOR GREEN SUPPLIER SELECTION**

Taş M. A. , Çakır E., Ulukan H. Z.

3C Tecnología, pp.115-133, 2021 (Peer-Reviewed Journal)

**V. WEB CONFERENCING SOFTWARE SELECTION WITH INTERVAL-VALUED FUZZY PARAMETERIZED INTUITIONISTIC FUZZY SOFT SETS**

Çakır E., Ulukan H. Z.

3C Tecnología, pp.53-65, 2021 (Peer-Reviewed Journal)

**VI. 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

**I. 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

**II. 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

**III. Bipolar Neutrosophic Fuzzy Dijkstra Algorithm and Its Application**

Çakır E., Ulukan H. Z.

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

**IV. A\* Algorithm Under Single-Valued Neutrosophic Fuzzy Environment**

Çakır E., Ulukan H. Z.

in: Intelligent and Fuzzy Techniques: Smart and Innovative Solutions , Kahraman C.,Cevik Onar S.,Oztaysi B.,Sari I.,Cebi S.,Tolga A., Editor, Springer, London/Berlin , Zürich, pp.302-310, 2020

V. **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**

- I. **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
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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

- XI. **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
- XII. **Türkiye'deki Limanların Çevresel Sürdürülebilirlik Performanslarının Bulanık Çok Kriterli Karar Verme Metodu İle Değerlendirilmesi**  
Taş M. A. , Çakır E., Ulukan H. Z.  
40. Yöneyem Araştırması - Endüstri Mühendisliği Kongresi (YAEM 2021), İstanbul, Turkey, 4 - 07 July 2021, pp.19
- XIII. **COVID-19 Geçici Test Laboratuvarları Yerleşimi İçin Bulanık Tabanlı Tasarruf Algoritması**  
Çakır E., Taş M. A. , Ulukan H. Z.  
40. Yöneyem Araştırması - Endüstri Mühendisliği Kongresi (YAEM 2021), İstanbul, Turkey, 4 - 07 July 2021, pp.87
- XIV. **Shortest Fuzzy Hamiltonian Cycle on Transportation Network Using Minimum Vertex Degree and Time-dependent Dijkstra's Algorithm**  
Çakır E., Ulukan H. Z. , Acarman T.  
16th IFAC Symposium on Control in Transportation Systems, Lille, France, 8 - 10 June 2021, pp.348-353
- XV. **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
- XVI. **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
- XVII. **An Intuitionistic Fuzzy MCDM Approach Adapted to Minimum Spanning Tree Algorithm for Spreading Content on Social Media**  
ÇAKIR E., ULUKAN H. Z.  
11th IEEE Annual Computing and Communication Workshop and Conference, CCWC 2021, Nevada, United States Of America, 27 - 30 January 2021, pp.174-179
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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

- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **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
- XXIX. **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

## Supported Projects

DEMİRCİOĞLU M. E. , ULUKAN H. Z. , ÇAKIR E., Project Supported by Higher Education Institutions, Industrial Engineering applications on Fuzzy Logic Environment, 2022 - Continues

ULUKAN H. Z. , ÇAKIR E., Project Supported by Higher Education Institutions, Endüstri Mühendisliğinde Bulanık Küme Uygulamaları, 2020 - 2022

## Metrics

Publication: 45