

## Asst. Prof. Serkan ONAR

### Personal Information

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### Education Information

Doctorate, İstanbul Üniversitesi, Sosyal Bilimler Enstitüsü, İşletme/Sayısal Yöntemler, Turkey 2014 - Continues

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 2012 - 2018

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, Turkey 2011 - 2012

Undergraduate, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Matematik, Turkey 2007 - 2010

### Dissertations

Postgraduate, BULANIK ESNEK GAMMA HALKALARI, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 2012

### Research Areas

Mathematics, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2020 - Continues

Assistant Professor, İstanbul Gelisim University, Faculty Of Economics, Administrative And Social Sciences, Department Of Management Information Systems, 2019 - 2020

Research Assistant PhD, Duzce University, Faculty Of Arts And Sciences, Department Of Mathematics, 2018 - 2019

Research Assistant, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2013 - 2018

Research Assistant, Duzce University, Faculty Of Arts And Sciences, Department Of Mathematics, 2012 - 2013

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

- I. **Intuitionistic fuzzy multi-polygroups**  
Onar S., Ersoy B. A. , Davvaz B., Hila K.  
Computational & Applied Mathematics, vol.41, no.12, pp.1-23, 2021 (Journal Indexed in SCI Expanded)
- II. **2-Absorbing  $\varphi$ - $\delta$  -Primary Ideals**  
Yavuz S., Onar S., Ersoy B. A. , Tekir Ü., Koç S.  
Turkish Journal Of Mathematics, no.46, pp.1, 2021 (Journal Indexed in SCI Expanded)
- III. **Vague soft module**  
ONAR S., YAVUZ S., ERSOY B. A. , HILA K.

JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.34, no.4, pp.2597-2609, 2018 (Journal Indexed in SCI)

- IV. **A Study on Fuzzy 2-absorbing Primary Gamma-ideals in Gamma-rings**  
ONAR S., SÖNMEZ D., ERSOY B. A. , YEŞİLOT G., HILA K.  
FILOMAT, vol.31, no.18, pp.5753-5767, 2017 (Journal Indexed in SCI Expanded)
- V. **On 2-Absorbing Primary Fuzzy Ideals of Commutative Rings**  
SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A. , DAVVAZ B.  
MATHEMATICAL PROBLEMS IN ENGINEERING, 2017 (Journal Indexed in SCI)
- VI. **ON GENERALIZED ROUGH (m, n)-BI-Gamma-HYPERIDEALS IN Gamma-SEMIHYPERGROUPS**  
HI K., ERSOY B. A. , ONAR S., DAVVAZ B.  
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.77, no.2, pp.93-104, 2015 (Journal Indexed in SCI)
- VII. **STRUCTURE OF IDEALISTIC FUZZY SOFT Gamma-NEAR-RING**  
ERSOY B. A. , ONAR S., DAVVAZ B., HILA K.  
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.77, no.3, pp.15-28, 2015 (Journal Indexed in SCI)
- VIII. **Fuzzy Gamma-Hyperideals in Gamma-Hypersemirings by Using Triangular Norms**  
ERSOY B. A. , DAVVAZ B., ONAR S., LEOREANU-FOTEA V.  
SCIENTIFIC WORLD JOURNAL, 2014 (Journal Indexed in SCI)
- IX. **On generalized intuitionistic fuzzy subhyperalgebras of Boolean hyperalgebras**  
HILA K., ONAR S., ERSOY B. A. , DAVVAZ B.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (Journal Indexed in SCI)
- X. **Fuzzy soft Gamma-ring**  
ONAR S., ERSOY B. A. , TEKİR Ü.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.36, pp.469-476, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **(T,S)-Intuitionistic Fuzzy Hyperideals of  $\Gamma$  -Hyperrings**  
ERSOY B. A. , ONAR S., HILA K., NAKA K.  
Applied Mathematics & Information Sciences, vol.15, no.3, pp.329-3423, 2021 (Refereed Journals of Other Institutions)
- II. **Intuitionistic fuzzy 2-absorbing semiprimary ideals of commutative rings**  
ONAR S., YAVUZ S., ERSOY B. A. , HILA K.  
Journal of Discrete Mathematical Sciences and Cryptography , vol.24, no.3, pp.1-16, 2021 (Journal Indexed in ESCI)
- III. **Study of Gamma-hyperrings by fuzzy hyperideals with respect to a t-norm**  
NAKA K., HILA K., ONAR S., ERSOY B. A.  
ACTA UNIVERSITATIS SAPIENTIAE-MATHEMATICA, vol.11, no.2, pp.306-331, 2019 (Journal Indexed in ESCI)
- IV. **2-Absorbing Semiprimary Fuzzy Ideal of Commutative Rings**  
SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A.  
Journal of Mathematical Sciences and Modelling, vol.2, no.3, pp.193-197, 2019 (Refereed Journals of Other Institutions)
- V. **Soft  $\Gamma$ -Semirings**  
BEKTAŞ Ö., GÜRSES N., ONAR S., ERSOY B. A.  
Math: Modelling, Application and Theory, vol.3, pp.1-16, 2018 (Refereed Journals of Other Institutions)
- VI. **2-Absorbing  $\delta$  -Primary Fuzzy Ideals of Commutative Rings**  
SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.9, pp.23-29, 2018 (Refereed Journals of Other Institutions)
- VII. **Intuitionistic Fuzzy 2-Absorbing Primary Ideals of Commutative Rings**

Yavuz S., Onar S., Sönmez D., Ersoy B. A. , Yeşilot G.

Turkish Journal of Mathematics and Computer Science, no.8, pp.37-48, 2018 (Refereed Journals of Other Institutions)

VIII. **The Embedding of an Ordered Semihypergroup in terms of Fuzzy Sets**

Naka K., Hila K., Onar S., Ersoy B. A.

Sigma Journal of Engineering and Natural Sciences, vol.1, no.9, pp.17-22, 2018 (Refereed Journals of Other Institutions)

IX. **FUZZY WEAKLY PRIME  $\Gamma$ -IDEALS IN  $\Gamma$ -RINGS**

Yeşilkurt G., ONAR S., SÖNMEZ D., ERSOY B. A.

Journal of Hyperstructures, vol.6, pp.14-26, 2017 (Refereed Journals of Other Institutions)

X. **INTUITIONISTIC FUZZY WEAKLY PRIME IDEALS**

ARKAN T., ONAR S., SÖNMEZ D., ERSOY B. A.

Journal of Hyperstructures, vol.6, pp.83-92, 2017 (Refereed Journals of Other Institutions)

XI. **INTUITIONISTIC FUZZY 2-ABSORBING IDEALS OF COMMUTATIVE RINGS**

YAVUZ S., ONAR S., SÖNMEZ D., ERSOY B. A.

Journal of Hyperstructures, vol.6, pp.56-71, 2017 (Refereed Journals of Other Institutions)

XII. **Soft  $\Gamma$ - Modules**

ONAR S., YAVUZ S., ERSOY B. A.

Ratio Mathematica, vol.32, pp.45-62, 2017 (Refereed Journals of Other Institutions)

XIII. **Some Properties of Intuitionistic Fuzzy Soft Rings**

ERSOY B. A. , ONAR S., HILA K., DAVVAZ B.

Journal of Mathematics, vol.2013, pp.1-8, 2013 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

I. **Vague Soft Lattices**

Onar S., Özkan E. M. , Ersoy B. A.

8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Antalya, Turkey, 19 - 21 October 2021, pp.1

II.  **$\delta$ -Primary Subhypermodules on Krasner Hyperrings**

Kaya E., Bolat M., Onar S., Ersoy B. A.

8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Antalya, Turkey, 19 - 21 October 2021, pp.1

III. **r-Subhypermodules on Krasner Hyperrings**

Bolat M., Kaya E., Onar S., Ersoy B. A.

8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Antalya, Turkey, 19 - 21 October 2021, pp.1

IV. **Intuitionistic Complex Fuzzy Hv-Subgroups**

Yavuz S., Onar S., Ersoy B. A.

8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Antalya, Turkey, 19 - 21 October 2021, pp.1

V.  **$\phi$ - $\delta$ -Primary Hyperideals in Krasner Hyperrings**

Kaya E., Bolat M., Onar S., Ersoy B. A.

3rd International Conference on Life and Engineering Sciences, İstanbul, Turkey, 11 - 13 December 2020, pp.36

VI. **r-Hyperideals and Generalizations of r-Hyperideals**

Bolat M., Kaya E., Onar S., Ersoy B. A.

3rd International Conference on Life and Engineering Sciences, İstanbul, Turkey, 11 - 13 December 2020, pp.41

VII.  **$\delta$ -r-Hyperideals and  $\phi$ - $\delta$ -r-Hyperideals of Commutative Hyperrings,**

Bolat M., Kaya E., Onar S., Ersoy B. A.

3rd International Conference on Life and Engineering Sciences, İstanbul, Turkey, 11 - 13 December 2020, pp.42

- VIII. **2- Absorbing  $\phi$ - $\delta$ -Primary Ideals**  
 Yavuz S., Koç S., Onar S., Ersoy B. A. , Tekir Ü.  
 3rd International Conference on Life and Engineering Sciences, İstanbul, Turkey, 11 - 13 December 2020, pp.48
- IX. **Intuitionistic Fuzzy Soft  $\Gamma$ -Regular Semigroups**  
 Onar S., Ersoy B. A.  
 4th International Conference on Pure and Applied Sciences: Renewable Energy (ICPAS 2017), İstanbul, Turkey, 23 November 2017, pp.99
- X. **A Note On 2-Absorbing Primary Fuzzy Ideals**  
 SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A.  
 The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Ankara, Turkey, 14 October 2017, pp.9
- XI. **Vague Soft Gamma Semigroup**  
 ONAR S., ERSOY B. A.  
 The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Ankara, Turkey, 14 October 2017, pp.64
- XII. **Intuitionistic Fuzzy 2-Absorbing Primary Ideals of Commutative Rings**  
 Yavuz S., ONAR S., ERSOY B. A. , SÖNMEZ D.  
 The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Ankara, Turkey, 14 October 2017, pp.52
- XIII. **2-Absorbing  $\delta$ -Primary Fuzzy Ideals of Commutative Rings**  
 SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications, İstanbul, Turkey, 24 - 27 July 2017
- XIV. **Intuitionistic Fuzzy 2-Absorbing Ideals of Commutative Rings**  
 Yavuz S., ONAR S., SÖNMEZ D., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.60
- XV. **Study of  $\alpha$ -hyperring by fuzzy hyperideals with respect to a  $\beta$ -norm**  
 Naka K., Hila K., ONAR S., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.78-80
- XVI. **Fuzzy Weakly Prime  $\alpha$ -Ideal in  $\beta$ -Rings**  
 Yeşilkurt G., ONAR S., SÖNMEZ D., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.59
- XVII. **Fuzzy Weakly Prime Gamma-Ideal in Gamma-Rings**  
 ERSOY B. A. , sönmez d., onar s., Yeşilkurt G.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.59
- XVIII. **The embedding of an ordered semihypergroup in terms of fuzzy sets**  
 Naka K., Hila K., ONAR S., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.84-85
- XIX. **Intuitionistic Fuzzy Weakly Prime Ideals**  
 Arkan T., ONAR S., SÖNMEZ D., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.52
- XX. **On an algebra of fuzzy  $\alpha$ -ary semihypergroups**  
 Naka K., Hila K., ONAR S., ERSOY B. A.  
 13th Algebraic Hyperstructures and its Applications (AHA2017), İstanbul, Turkey, 24 July 2017, pp.81-82
- XXI. **A new study on 2-absorbing Ideals of Gamma Rings**  
 SÖNMEZ D., YEŞİLOT G., ONAR S., ERSOY B. A.  
 International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 May 2017, pp.99
- XXII. **Isomorphism Theorems for Fuzzy Soft  $\alpha$ -rings**  
 Aktaş E., ERSOY B. A. , ONAR S., DAVVAZ B.  
 INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015), İstanbul, Turkey, 08 June 2015, pp.100
- XXIII. **Intuitionistic Fuzzy Soft Gamma-semigroups**  
 ONAR S., ERSOY B. A.  
 International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 May 2017, pp.157
- XXIV. **Fuzzy Isomorphism Theorems of Idealistic Soft Gamma Rings**

- Aktaş E., ERSOY B. A. , ONAR S., DAVVAZ B.  
The 4th International Fuzzy Systems Symposium (FUZZYSS'15), İstanbul, Turkey, 05 November 2015, pp.476-483
- XXV. **Vague Soft Gamma Rings and Idealistic Vague Soft Gamma Rings**  
Bolat M., ERSOY B. A. , ONAR S., DAVVAZ B.  
The 4th International Fuzzy Systems Symposium (FUZZYSS'15), İstanbul, Turkey, 05 November 2015, pp.484-506
- XXVI. **Structure of Vague Soft  $\gamma$ -rings.**  
Bolat M., ERSOY B. A. , Onar S., Davvaz B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015), 01 August 2015
- XXVII. **Structure of Vague Soft Gamma-rings**  
Bolat M., ERSOY B. A. , ONAR S., DAVVAZ B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015), İstanbul, Turkey, 08 June 2015, pp.198
- XXVIII. **Isomorphism Theorems for Fuzzy Soft Gamma-rings**  
Aktaş E., ERSOY B. A. , ONAR S., DAVVAZ B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015), İstanbul, Turkey, 08 June 2015, pp.100
- XXIX. **Characterization of Intuitionistic Fuzzy Soft  $\gamma$ -Rings**  
Yılmaz Z., ERSOY B. A. , ONAR S., DAVVAZ B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015), İstanbul, Turkey, 08 June 2015, pp.359
- XXX. **A New Study on Generalized Intuitionistic Fuzzy Subhyperalgebras of Boolean Hyperalgebras**  
ONAR S., ERSOY B. A. , DAVVAZ B., HILA K.  
2nd International Eurasian Conference on Mathematical Sciences and Applications, Saraybosna, Bosnia And Herzegovina, 26 August 2013, pp.16
- XXXI. **Intuitionistic Fuzzy Soft Ring**  
ONAR S., ERSOY B. A. , DAVVAZ B., HILA K.  
13th International Conference of Mathematics and its Applications (ICMA 2012), Timisoara, Romania, 01 November 2012, pp.1
- XXXII. **On Fuzzy Soft gamma Rings**  
ONAR S., ERSOY B. A.  
1st INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Priştine, Kosova, 03 September 2012, pp.363
- XXXIII. **Intuitionistic Fuzzy Soft Gamma Ring**  
ONAR S., ERSOY B. A. , Özbek İ.  
International Congress in Honour of Professor Hari M.Srivastava, Bursa, Turkey, 23 August 2012, pp.206
- XXXIV. **Characterizations of Generalized Fuzzy Subhyperalgebras Of Boolean Hyperalgebras**  
HILA K., ONAR S., ERSOY B. A. , DAVVAZ B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA (ICAAA2012), İstanbul, Turkey, 20 June 2012, pp.239
- XXXV. **On Generalized Rough (m,n)-Bi-Hyperideals in Semihypergroups**  
HILA K., ERSOY B. A. , ONAR S., DAVVAZ B.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND ALGEBRA (ICAAA2012), İstanbul, Turkey, 20 June 2012, pp.57

## Scientific Refereeing

African Journal of Engineering Research, Other Indexed Journal, February 2018

Iranian Journal of Fuzzy Systems, SCI Journal, January 2018

International Balkan Journal of Mathematics, Other Indexed Journal, January 2018

Konuralp Journal of Mathematics, Other Indexed Journal, October 2017

Annals of Fuzzy Mathematics and Informatics (AFMI), Other Indexed Journal, July 2016

Annals of Fuzzy Mathematics and Informatics (AFMI), Other Indexed Journal, August 2015

## **Edit Congress and Symposium Activities**

The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Attendee, Ankara, Turkey, 2017

13th Algebraic Hyperstructures and its Applications (AHA2017), Attendee, İstanbul, Turkey, 2017

International Conference on Mathematics and Engineering, Attendee, Turkey, 2017

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2015), Attendee, İstanbul, Turkey, 2015

12th International Conference on Algebraic Hyperstructures and its Applications, Attendee, Xánthi, Greece, 2014

3rd International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Wien, Austria, 2014

2nd International Eurasian Conference on Mathematical Sciences and Applications, Attendee, Sarajevo, Bosnia And Herzegovina, 2013

International Congress in Honour of Professor Hari M.Srivastava, Attendee, Bursa, Turkey, 2012

## **Citations**

Total Citations (WOS):8

h-index (WOS):2

## **Scholarships**

2211 Yurt İçi Doktora Bursu, TUBITAK, 2012 - Continues

## **Awards**

ONAR S., Akademik Teşvik, YÖK, February 2018

ONAR S., Yayın Teşvik Ödülü, Yıldız Teknik Üniversitesi, February 2016

ONAR S., Akademik Teşvik, YÖK, January 2016

ONAR S., TEMEL T., Yayın Teşvik Ödülü, Yıldız Teknik Üniversitesi, January 2015