|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *Journal of Amasya University the Institute of Sciences and Technology*  [dergipark.org.tr/en/pub/jauist](https://dergipark.org.tr/en/pub/jauist)  Open Access  *A black and white sign with a person in a circle  Description automatically generated* | | |  |
| ISSN: 2717-8900 | | xx (x) (202x) 100-105 | [doi.org/10.54559/jauist.xxxxx](https://doi.org/10.54559/jauist.xxxxxx) | |

# Full Title of Paper

First Author[[1]](#footnote-2) [](https://orcid.org/), Second Author[[2]](#footnote-3) [](https://orcid.org/), Third Author3 **[](https://orcid.org/)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Article Info**   |  |  | | --- | --- | | *Received*: | xx Jan 202x | | *Accepted*: | xx Jan 202x | | *Published*: | xx Jan 202x |   Research Article | **Abstract −** Insert an abstract here, including the purpose, method, and findings of the study. The abstract must not exceed 250 words (minimum 60 words). Do not use references in the abstract. Do not use any abbreviations unless the unabbreviated form is provided herein. Write three-five keywords. ORCIDs are compulsory. By right clicking the ORCID icon, select “Edit Link” and paste your ID as https://orcid.org/xxxx-xxxx-xxxx-xxxx. |
| ***Keywords −*** *First keyword, second keyword, third keyword, fourth keyword, fifth keyword* | |

## Introduction (Compulsory)

Write an introduction here. Use American English [1]. Use citations in the order of appearance in the paper (not in alphabetical order) [2]. Add a critical literature review. Express the study’s motivation. This section cannot contain a subsection. Do not cite unpublished studies, such as the ones in arXiv. Write an introduction text here [3-5]. For a new paragraph, use Enter, not Shift+Enter.

Do not use informal expressions, such as first-person pronoun “I”, certain conjunctions, prepositions, adverbs, or modal expressions (e.g., also, plus, so far, now, so, and let us), contractions (e.g., can’t, don’t, haven’t, and aren’t), abbreviations (e.g., let’s, ASAP, and w.r.t.), phrasal verbs, slangs, and colloquial language [6, 7]. Write in full the phrase you want to use the abbreviation of and specify the abbreviation symbol in parentheses. Use only the abbreviation in subsequent uses.

Use commas after conjunctions or adverbs, including but not limited to Therefore, Thus, Hence, Thereby, Thereafter, Consequently, Moreover, Furthermore, Besides, Further, In addition, Additionally, Then, Afterward, Subsequently, Later, Hereinafter, Finally, Thus far, Recently, Lately, and Latterly. Use necessary commas …, then … / …, for …, / …, for all …, / For …, / For all …,. Use the Oxford comma (or serial comma) (e.g., A, B, and C). Write an introduction text here [8, 9]. Write an introduction text here [10-13].

Describe the paper’s layout in the last paragraph. The rest of the paper is organized as follows: Section 2 provides .... Section 3 presents .... Section 4 discusses .... Write an introduction text here [14, 15]. Write an introduction text here. Write an introduction text here. Write an introduction text here [16-18].

## Materials and Methods/ Preliminaries (Recommended)

This section should explain the materials and methods used in the research articles. The method should be given in detail and clearly to ensure the reproducibility of the study. The methods used should be supported by previously published references.

Add definitions, theorems, etc. used in the paper. Provide proper credit to definitions, theorems, etc. The first sentence of Preliminaries can be started as “This section presents/ provides some of the basic definitions and properties/ some notions to be used/ required/ needed in the next sections/ following section”.

**Definition 2.1.** [5] Definition. Definition. Definition. Definition. Definition. Definition. Definition. Definition.

**Lemma 2.2.** [5] Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. Lemma.

PROOF*.* Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. ◻

### Subsection Subsection

Tables and figures must be captioned and numbered. Captions should be located under the figure and top the table, centered, Sentence case form, and 11 pt. Figures and tables should be referred to by the number in the text (e.g., Table 1 shows that …, Figure 1 shows that …, Tables 1 and 2 manifest that …, Figures 1 and 2 specify that …, and Tables 1-3 indicate that …). Texts in tables should be 9 pt. Suppose tables and figures are consecutive, leave a line space in between.

**Table** **1.** Results for the parameters and the objects ranging from 100 to 1000

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **100** | **200** | **300** | **400** | **500** | **600** | **700** | **800** | **900** | **1000** |
| **CE10an** | 0.2739 | 3.2532 | 14.0127 | 40.1959 | 93.9178 | 184.5333 | 335.5700 | 568.7381 | 914.9916 | 1412.0988 |
| **EMO18an** | **0.0113** | **0.0069** | **0.0068** | **0.0101** | **0.0162** | **0.0200** | **0.0244** | **0.0587** | **0.0396** | **0.0506** |
| **Difference** | 0.2626 | 3.2463 | 14.0060 | 40.1858 | 93.9015 | 184.5134 | 335.5456 | 568.6794 | 914.9520 | 1412.0482 |
| **Advantage (%)** | 95.8871 | 99.7870 | 99.9518 | 99.9748 | 99.9827 | 99.9892 | 99.9927 | 99.9897 | 99.9957 | 99.9964 |
| Boldfaced values indicate the “best” performances. | | | | | | | | | | |

**Figure 1.** Results for the parameters and the objects ranging from 100 to 1000

### Subsubsection Subsubsection

The SI system (Systeme International d’Unit´es) must be used in all scientific data. There should be no space between the % sign and the number. The percent sign (%) is used after the number, e.g., 18%. A decimal point must be used in decimal numbers, e.g., 2.5 instead of 2,5.

## Results and Discussion/ Main Results (Recommended)

This section should provide/ introduce/ investigate the findings and discussion/ definitions and theorems. Findings/ Concepts obtained from the study should be supported in this section by figures and tables or propositions and examples. For Results and Discussion, the similarities and differences of the obtained results with other studies should be provided, and the possible reasons for these should be discussed based on literature. For Results and Discussion, the contribution and importance of the results to science should be emphasized. The obtained results should be interpreted, avoiding unnecessary repetitions.

### Equations

The equations are written centered. Equations are numbered sequentially in the relevant section. Do not number equations or mathematical expressions unless necessary. Do not use punctuation after centered equations/ mathematical expressions, even if they are at the end of a sentence. Use , , and instead of or and . Use instead of . Equations should be referred to by the number with parentheses in the text (e.g., From (3.1), …, From (3.1) and (3.2), …, From (3.1)-(3.3), …, and From (3.1)-(3.3) and (3.5), …).

|  |  |
| --- | --- |
|  | (3.1) |
|  | (3.2) |
|  | (3.3) |
|  | (3.4)  (3.5) |
|  | (3.6) |
|  | (3.7) |

**Theorem 3.1.** Theorem. Theorem. Theorem. Theorem. Theorem. Theorem.



PROOF. *i.* By Definition 2.1/ From Lemma 2.2, ... Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |

Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof. Proof.

Proof. Proof. ◻

## Conclusion (Compulsory)

This study ... (Write the remarkable results of the study briefly, a minimum of 30 words). Future studies ... (Mention the need for further research, a minimum of 30 words).

## Author Contributions (Compulsory)

The author read and approved the final version of the paper. / All the authors equally contributed to this work. This paper is derived from the first author’s doctoral dissertation/ master’s thesis supervised by the second author. They all read and approved the final version of the paper.

## Conflict of Interest (Compulsory)

The author declares no conflict of interest. / All the authors declare no conflict of interest.

## Ethical Review and Approval (Compulsory)

No approval from the Board of Ethics is required. / The research was reviewed and approved by the Board of Ethics of Xx University, Approval number: E-56365223-050.04.

## Acknowledgment (if necessary)

We thank Dr. Xx for his/her support. This work was supported by the Office of Scientific Research Projects Coordination at Xx University, Grant number: FBA-2018-1367.

## References

1. L. A. Zadeh, *Fuzzy sets*, Information and Control 8 (3) (1965) 338–353. article
2. D. A. Molodtsov, *Soft set theory–first results*, Computers and Mathematics with Applications 37 (4-5) (1999) 19–31. article with multi-number
3. A. Sezgin, S. Ahmad, A. Mehmood, *A new operation on soft sets: Extended difference of soft sets*, Journal of New Theory (27) (2019) 33–42. article without volume
4. D. Binbaşıoğlu, S. Demiriz, D. Türkoğlu, *Fixed points of non-Newtonian contraction mappings on non-Newtonian metric spaces*, Journal of Fixed-Point Theory and Applications 18 (1) (2016) 213–224. article with three-author
5. T. Aydın, S. Enginoğlu, *Interval-valued intuitionistic fuzzy parameterized interval-valued intuitionistic fuzzy soft matrices and their application to performance-based value assignment to noise-removal filters*, Computational and Applied Mathematics 41 (2022) Article Number 192. article with Article Number/ Article ID
6. C. Allen, S. Archambault, A. Archer, W. Benbow, R. Bird, E. Bourbeau, R. Brose, M. Buchovecky, J. H. Buckley, V. Bugaev, J. V. Cardenzana, M. Cerruti, X. Chen, J. L. Christiansen, M. P. Connolly, W. Cui, M. K. Daniel, J. D. Eisch, A. Falcone, Q. Feng, ..., D. A. Williams, *Very high energy -ray observations of the blazar 1ES 2344+514 with veritas*, Monthly Notices of the Royal Astronomical Society 471 (2) (2017) 2117–2123. article with multi authors (the first twenty authors ... the last author)
7. E. Tunç, *A note on the oscillation of second order differential equations with damping*, Journal of Computational Analysis and Applications (accepted/ in press). accepted or in press paper
8. R. P. Agarwal, S. R. Grace, D. O’Regan, Oscillation theory for difference and functional differential equations*,* Kluwer, 2000. book
9. H.-J. Zimmermann, Fuzzy set theory–and its applications, 4th Edition, Springer, 2001. book with edition
10. D. A. Molodtsov, Soft set theory (in Russian), URSS, 2004. non-English book
11. A. Mukherjee, Generalized rough sets – Hybrid structure and applications, Vol. 324 of Studies in Fuzziness and Soft Computing, Springer, 2015, Ch. 4, pp. 11--22. book with series and chapter
12. T. Aydın, S. Enginoğlu, *Configurations of SDM methods proposed between 1999 and 2012: A follow-up study*, in: K. Yıldırım (Ed.), International Conference on Mathematics An İstanbul Meeting for World Mathematicians, İstanbul, 2020, pp. 192–211. conference/ inproceedings with single editor
13. S. Enginoğlu, S. Memiş, *A review on some soft decision-making methods*, in: M. Akgül, İ. Yılmaz, A. İpek (Eds.), International Conference on Mathematical Studies and Applications, Karaman, 2018, pp. 437–442. conference/ inproceedings with multi-editor
14. S. Enginoğlu, U. Erkan, S. Memiş, *Exponentially weighted mean filter for salt-and-pepper noise removal*, in: N. H. T. Dang, Y. D. Zhang, J. M. R. S. Tavares, B. H. Chen (Eds.), Artificial Intelligence in Data and Big Data Processing, Vol. 124 of Lecture Notes on Data Engineering and Communications Technologies, Springer, Cham, 2022, pp. 435–446. incollection
15. İ. Deli, *Hybrid set structures under uncertainly parameterized hypersoft sets: Theory and applications*, in: F. Smarandache, M. Saeed, M. Abdel-Baset, M. Saqlain (Eds.), Theory and Application of Hypersoft Set, Pons Publishing House, Brussels, 2021, Ch. 2, pp. 24–49. incollection with chapter
16. D. Fidan, *Fuzzy parameterized fuzzy soft measure spaces*, Master’s Thesis Çanakkale Onsekiz Mart University (2024) Çanakkale. master’s thesis
17. B. Arslan, *Soft derivative*, Doctoral Dissertation Çanakkale Onsekiz Mart University (2024) Çanakkale. doctoral dissertation
18. D. Dua, C. Graff, UCI Machine Learning Repository (2019), <https://archive.ics.uci.edu/ml>, Accessed 4 Feb 2023. misc

**Notes for References:** A communicated/ submitted paper should not be cited in the paper. Do not abbreviate last names. Use “S. Enginoğlu”, “D. A. Molodtsov”, and “H.-J. Zimmermann” but not full names “Serdar Enginoğlu”, “Dmitri Anatol’evich Molodtsov”, and “Hans-Jürgen Zimmermann”, respectively. Moreover, use D. A. Molodtsov instead of D.A. Molodtsov. Abbreviations in an article’s title, such as SDM (see [13]), should be written in capital letters. All the publishers’ names should be written Smart Title Case Form, i.e., the first letter of each word is capitalized except for web addresses, “a”, “an”, “the”, “in”, “on”, etc., and the others titles in the references should be written in Sentence case form. For the Smart Title Case Form, you can use <https://convertcase.net/>. Do not use any language other than American English in references unless necessary. Provide the required information concerning conference papers, such as Editors and city.

**Table 2.** Common Mistakes and Their Corrections

|  |  |
| --- | --- |
| Mistakes | Corrections |
| from Equation (2.1), | from (2.1), |
| from Eq. (2.1), | from (2.1), |
| the Table 3 | Table 3 |
| the Fig. 3 | Figure 3 |
|  | for all |
| for every | for all |
| for any | for all |
| AA, BB and CC | AA, BB, and CC |
| AA, BB or CC | AA, BB, or CC |
| Let us consider | Consider |
| Let’s consider | Consider |
|  |  |
|  |  |
|  |  |
| x |  |
|  |  |
| Molodtsov has defined soft sets, a new mathematical tool [2]. | Molodtsov [2] has defined soft sets, a new mathematical tool. |

1. First author’s e-mail; 2Second author’s e-mail (Corresponding Author); 3Third author’s e-mail [↑](#footnote-ref-2)
2. 1Department of Mathematics, Faculty of Arts and Sciences, Amasya University, Amasya, Türkiye

   ,3Department, Faculty, University, City, Country [↑](#footnote-ref-3)