LaTeX

# Add full title of paper in which the only first letter is capital

**First Author**[1] 🆔 **, Second Author**[2,*] 🆔 **, Third Author**[3] 🆔

[1]Department of Mathematics, Faculty of Arts and Sciences, Amasya University, Amasya, Türkiye
[2,3]Department, Faculty, University, City, Country

**Abstract** — Insert an abstract here, a minimum of 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. Write two Subject Classification (2020) codes (if any), primary and secondary. ORCIDs are compulsory. Edit the codes \orcid{0000-0000-0000-0000} in the .tex file "JAUIST_Template_LaTeX" according to your own ORCIDs. Insert an abstract here. Do not use references in the abstract. Do not use any abbreviations unless the unabbreviated form is provided herein. Write three-five keywords. Write two Subject Classification (2020) codes (if any), primary and secondary. ORCIDs are compulsory. Edit the codes \orcid{0000-0000-0000-0000} in the .tex file "JAUIST_Template_LaTeX" according to your own ORCIDs.

**Keywords:** First keyword, second keyword, third keyword, fourth keyword, fifth keyword

**Subject Classification (2020):** 34KXX, 39AXX

## 1. 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. Clearly express the study's motivation. Write a text of introduction here. Write a text of introduction here [3–5]. In the .tex file, for a new paragraph, do not use "\\".

Do not use informal expressions, such as first person pronoun "I", certain conjunctions, prepositions, or adverbs (e.g., also, plus, so far, now, and so), contractions (e.g., can't, don't, haven't, we're, and let's), abbreviations (e.g., ASAP and w.r.t.), phrasal verbs, slangs, and colloquial language [6,7].

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 commas as highlighted in yellow "..., then ..."/"..., for ..."/"..., for all ..."/"For ...,"/"For all ...,". Use the Oxford comma (or serial comma) (e.g., A, B, and C). Write a text of introduction here [8,9]. Write a text of introduction here [10–13].

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Describe the paper's layout in the last paragraph.. Write a text of introduction here. Write a text of introduction here [14,15]. Write a text of introduction here. Write a text of introduction here [16–19].

## 2. Preliminaries (Recommended)

Add definitions, theorems, etc. used in the paper. Give proper credit to definitions, theorems, etc. Preliminary. Preliminary. Preliminary. Preliminary. Preliminary. Preliminary.

**Definition 2.1.** [6] Definition. Definition. Definition. Definition. Definition. Definition. Definition. Definition. Definition.

**Lemma 2.2.** [7] Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. 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.

$$[a_{ij}] = \begin{bmatrix} 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. □

### 2.1. Subsection

Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection.

**Definition 2.3.** Definition Definition Definition Definition Definition Definition Definition Definition

| $*$ | $a$ | $b$ | $c$ |
|---|---|---|---|
| $a$ | $a$ | $b$ | $c$ |
| $b$ | $b$ | $c$ | $a$ |
| $c$ | $c$ | $a$ | $b$ |

#### 2.1.1. Subsubsection

Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection.

## 3. Section

Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three.

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

*i.* $x = x \Rightarrow x - x = 0$

*ii.* $y = y \Leftrightarrow y - y = y - y$

**Proof.**

*i.* From Lemma 2.2, ... Theorem. Theorem. Theorem. Theorem. Theorem. Theorem.

$$y = y \qquad (3.1)$$

$$|x + y| \leq |x| + |y| \tag{3.2}$$

$$\begin{cases} -p(x)u''(x) + q(x)u(x) = \lambda u(x), & x \in [-1,0) \cup (0,1] \\ (\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, & a_1, a_2 \in \mathbb{R} \end{cases} \tag{3.3}$$

$$\begin{cases} -p(x)u''(x) + q(x)u(x) = \lambda u(x), & x \in [-1,0) \cup (0,1] & (3.4) \\ (\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, & a_1, a_2 \in \mathbb{R} & (3.5) \end{cases}$$

$$-p(x)u''(x) + q(x)u(x) = \lambda u(x), \quad x \in [-1,0) \cup (0,1] \tag{3.6}$$

$$(\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, \quad a_1, a_2 \in \mathbb{R} \tag{3.7}$$

*ii.* From (3.1), ... proof of theorem. From (3.2) and (3.3), ... proof of theorem. From (3.4)-(3.7) ... proof of theorem.

$$\begin{aligned} (x + y)^2 &= x^2 + xy + yx + y^2 \\ &= x^2 + 2xy + y^2 \end{aligned}$$

Do not number equations or mathematical expressions unless necessary. Do not use punctuations after centered equations/mathematical expressions, even if they are at the end of a sentence. Use $A$, $B$, and $C$ instead of $A, B, C$. Use $i \in \{1, 2, 3, \cdots\}$ instead of $i = 1, 2, 3, \cdots$. $\square$

Tables and figures must be captioned and numbered. Captions should be located under the figure and on top of the table. 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 ...").

**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 |
| **EMA18an** | **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. Boldfaced values indicate the "best" performances. Boldfaced values indicate the "best" performances.
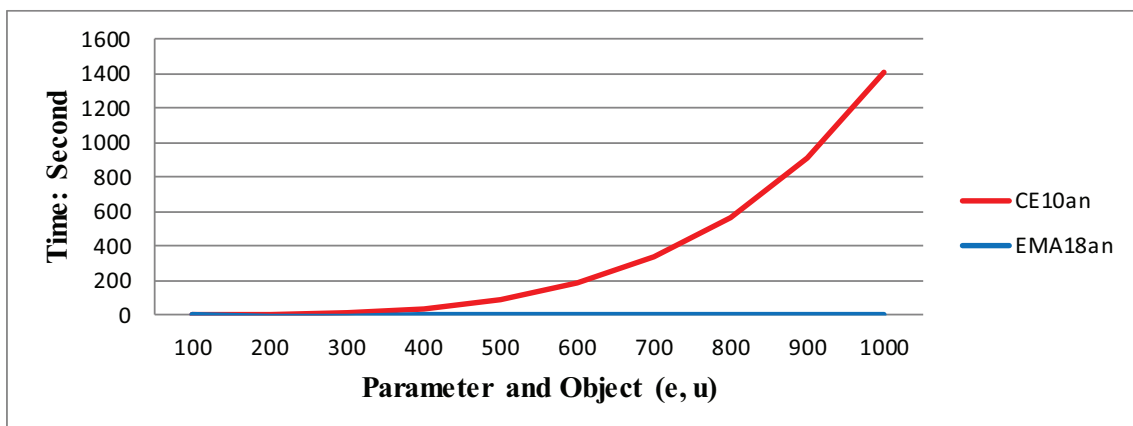


**Figure 1.** Results for the parameters and the objects ranging from 100 to 1000

Do not delete and change the commands \vspace in the table and figure.

## 4. Conclusion (Compulsory)

This study ... Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Mention the need for further research (recomended), for example, "Future studies ...".

## Author Contributions

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.

The author read and approved the final version of the paper.

## Conflicts of Interest

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

## Acknowledgement (if necessary)

## References

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[19] D. Dua, C. Graff, *UCI machine learning repository*, University of California, Irvine, School of Information and Computer Sciences (2019) https://archive.ics.uci.edu/ml (Accessed 4 Feb 2023).

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[1]Department of Mathematics, Faculty of Arts and Sciences, Amasya University, Amasya, Türkiye
[2,3]Department, Faculty, University, City, Country

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Describe the paper's layout in the last paragraph. Write a text of introduction here. Write [14, 15] a text of introduction here. Write a text of introduction here. Write a text of introduction here. Write a text of introduction here [16-18].

*Corresponding Author

[1]First author's e-mail; [2]Second author's e-mail; [3]Third author's e-mail

## 2. Preliminaries (Recommended)

This section provides some basic notions to be needed for the following sections. <mark>Add definitions, theorems, etc. used in the paper.</mark> <mark>Give proper credit</mark> to definitions, theorems, etc. Preliminary. Preliminary. Preliminary. Preliminary. Preliminary. Preliminary.

**Definition 2.1.** [6] Definition. Definition. Definition. Definition. Definition. Definition. Definition. Definition. Definition.

**Lemma 2.2.** [7] Lemma. Lemma. Lemma. Lemma. Lemma. Lemma. 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.

$$\left[a_{ij}\right] = \begin{bmatrix} 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. Proof of Lemma. □

## 3. Section

This section presents …Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three. Section Three.

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

*i.* $x = x \Rightarrow x - x = 0 \Rightarrow x - x = 0$

*ii.* $y = y \Leftrightarrow y - y = y - y$

PROOF.

*i.* From Lemma 2.2, … Theorem. Theorem. Theorem. Theorem. Theorem. Theorem. Theorem Theorem

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$$|x + y| \le |x| + |y| \tag{3.2}$$

$$\begin{cases} -p(x)u''(x) + q(x)u(x) = \lambda u(x), & x \in [-1, 0) \cup (0, 1] \\ (\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, & a_1, a_2 \in \mathbb{R} \end{cases} \tag{3.3}$$

$$\begin{cases} -p(x)u''(x) + q(x)u(x) = \lambda u(x), & x \in [-1, 0) \cup (0, 1] \tag{3.4} \\ (\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, & a_1, a_2 \in \mathbb{R} \tag{3.5} \end{cases}$$

$$-p(x)u''(x) + q(x)u(x) = \lambda u(x), \quad x \in [-1, 0) \cup (0, 1] \tag{3.6}$$

$$(\ln y)'(-1) = a_1, (\ln y)'(1) = a_2, \quad a_1, a_2 \in \mathbb{R} \tag{3.7}$$

*ii.* From (3.1), … From (3.2) and (3.3), … From (3.4)-(3.7), …

$$(x + y)^2 = x^2 + xy + yx + y^2$$

$$= x^2 + 2xy + y^2$$

<mark>Do not number</mark> equations or mathematical expressions unless necessary. <mark>Do not use punctuations after centered equations/mathematical expressions, even if they are at the end of a sentence.</mark> Use $A, B$, and $C$ instead of $A, B, C$ or $A, B$, and $C$. <mark>Use</mark> $i \in \{1,2,3, \cdots\}$ instead of $i = 1,2,3, \cdots$. □

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| **Advantage (%)** | 95.8871 | 99.7870 | 99.9518 | 99.9748 | 99.9827 | 99.9892 | 99.9927 | 99.9897 | 99.9957 | 99.9964 |

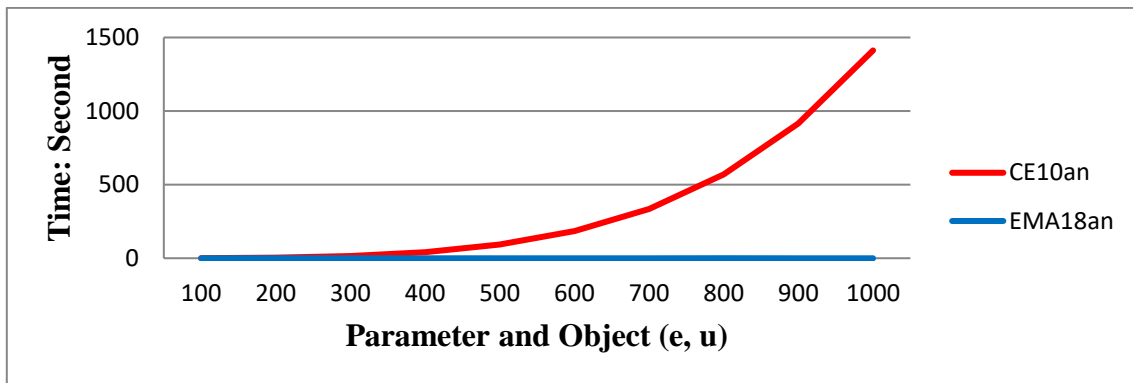Boldfaced values indicate the "best" performances.



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

If tables and figures are consecutive, <mark>leave a line space</mark> in between.

## 3.1. Subsection

This subsection presents … Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection. Subsection.

**Definition 2.3.** Definition Definition Definition Definition Definition Definition Definition Definition

| $*$ | $a$ | $b$ | $c$ |
|---|---|---|---|
| $a$ | $a$ | $b$ | $c$ |
| $b$ | $b$ | $c$ | $a$ |
| $c$ | $c$ | $a$ | $b$ |

## 3.1.1. Subsubsection

Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection. Subsubsection.

## 4. Conclusion (Compulsory)

This study … Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. <mark>Mention the need for further research (recommended)</mark>, for example, "Future studies …".

## Author Contributions

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.

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## Conflict of Interest

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