



ISSN: 1932-9466

## AAM Guide for Authors

### I. INVITATION

**Application and Applied Mathematics: An International Journal (AAM)** invites contributors from throughout the globe to submit their original manuscripts for review and possible publication in the journal.

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Currently, publication in and access to AAM are free of charge. The authors are referred to the following sites:

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1. American Mathematical Society, Mathematical Review (MathSciNet®),
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6. JIFACTOR, The Journal Impact Factor, (<http://jifactor.org/index.php>),
7. Universal Impact Factor (<http://uifactor.org/JournalDetails.aspx?jid=232>),
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### IV. SUBMISSION of a MANUSCRIPT to AAM

The following items are to instruct authors to prepare and submit their manuscripts. Authors should review and apply each and all items in this part and the two additional parts that follows.

1. No part of any published material, such as definitions, theorems, lemmas, and propositions, of other authors already published in books and journals is allowed to be included in a submitted manuscript. However, contents of such materials could be presented in a paragraph with proper citations.
2. A Manuscript to be submitted should be with no date or stating authors' academic ranks as part of author' information on the first paper.
3. A Manuscript to be submitted should have been written professionally, using US English language and grammatically correct, with appropriate punctuations and no typos.
4. To strengthening the credibility of AAM and to prevent plagiarism, AAM is using the Turnitin software as part of its review process. Should the index of duplication/similarity be higher than 25%, it will be not be considered at all and/or be rejected.
5. Along with the manuscript, authors need also submit the following:
  - (i) a separate Abstract sheet and
  - (ii) a potential reviewers list containing names, academic affiliations, full physical addresses, and current e-mail addresses of at least 5 international potential reviewers, 2 of whom must be from the AAM Editorial Board, according to the subject of the manuscript. The rest must be from different countries than where the authors' live.

Note that incorrect or incomplete information may elongate the review duration.

6. A submitted manuscript should be **numbered** at the center bottom. However, the numbers should be removed, should the manuscript be accepted and the final version is to be submitted.
7. Manuscripts should have **no footnotes**.
8. Manuscripts should be submitted, electronically, to the Editor-in-Chief at [amhaghghi@pvamu.edu](mailto:amhaghghi@pvamu.edu). Due to size limitation of this email, in case that a size of a manuscript and its accompanying files is larger than 8 GB, it should be sent to an alternative email as [amhaghghi@gmail.edu](mailto:amhaghghi@gmail.edu).
9. The receipt of a manuscript will be acknowledged by the Editor-in-Chief and if it minimally complies with AAM manuscript submission requirements, a **reference number** will be assigned to the manuscript.
10. If a manuscript is accepted for publication, **it is the authors' responsibilities and obligations to submit an acceptable final version by the Editor-in-Chief**. Not receiving such a version in time may cause delay in publication or change of decision to possible rejection of the manuscript.
11. Once a manuscript is given a reference number, **there is no specific timeline** for completion of the review process and final decision as to accept, revise or reject.
12. **Manuscript Withdrawal:** After a manuscript has been given a reference number, an author may withdraw her/his manuscript within 30 days from the date the Reference Number has been issued. Any request for withdraw after such a date will be at the discretion of the Editor-in-Chief.

## V. MANUSCRIPT'S CONTENTS AND ORDER

1. **Title:** should be short (**no more than 15 words**) and contain no symbol and no special characters. It should be centered, bold with font size of 16 points, capitalizing only the first letter of each main word.
2. **Authors' name** (first and last name), bold with font size of 14 points, capitalizing only the first letter of names. It should be centered.
3. **Authors' information, affiliations and e-mail addresses** with no title, rank, telephone numbers or date. Also, with no punctuation at the end of any line. These items should be centered, with font size 12 points and **not bold**. Here is how the above information should look like:

**On the Axxx Bxxxx of a Cxxxx Dxxxx Exxxx  
for Gxxxx Hxxxx Ixxx**

**<sup>1\*</sup>Axxx Bener and <sup>2</sup>Cxxx Dxxx**

<sup>1</sup>Department of Mathematics  
Faculty of Sciences  
University of Axxx  
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<sup>2</sup>Department of Y. Engineering  
Faculty of Sciences  
University of Bxxx  
2222 Dxxx Rd.  
City, Country  
email.xxx

\*Corresponding author

Received: J; Accepted: J

### 4. **Abstract**

The Abstract Section should be only one paragraph written in third person, between 150 to 250 words. It should be descriptive, free of any citation, formula or symbol.

5. **Keywords:** Between 7 to 10 words and/or expressions; separated with semicolon; and with no punctuation at the end. If the length exceeds one line, it should be with “Hanging” of 1.0.

6. **MSC 2010 (or 2020) No.:** aaaaa, bbbbb (2 or 3)

Primary and secondary numbers (with additional, if appropriate), 5 digits with no “x”, and with no punctuation at the end.

Mathematics Subject Classification, **MSC**, can be found at <http://www.ams.org/msc/>.

7. **1. Introduction**

Starting with a section number 1, that is, “**1. Introduction**”. The Introduction Section should

- (i) be **descriptive**, and
- (ii) be **free of any formula, and**
- (iii) contain

- (a) literature review that should include at least two papers published by AAM, if there exists such papers,
- (b) detailing goals of the manuscript, and
- (c) illustrating the **novelty** of the manuscript.

8. **Manuscript’s body:** methodology, analysis, theory, numerical illustrations, etc. **No expression such as “It is obvious” or “It can easily” should be used in the analysis part of the text.**

9. **Conclusion**

With separate section number, to include results, challenges and future studies; it should be descriptive with no formulae and no citation, containing at least 200 and at most 500 words.

10. ***Acknowledgment***

*Optional, only after the manuscript has been accepted, unless the manuscript is sponsored by an agency that requires recognition, the title and this text should be in italics.*

11. **REFERENCES**

All upper cases. At least 10 other than those published by the authors and should be up-to-date with 30% during the last 5 years and it should be alphabetically ordered.

12.

## APPENDICES

All upper cases. If necessary. If there are some long proofs or if the number of figures and tables are excessive, they should be put in this section.

13. **Authors' biographical note**, not to exceed 150 words for each author (optional)

### Part VI. AAM Standard Formatting of a Manuscript

1. A manuscript should be formatted **single-columned** and **single-spaced** using either LaTeX or Microsoft Word, **according to the following style and format**:

(i) To use LaTeX format, authors should use the AAM templates.

(ii) A manuscript formatted using Microsoft Word should use the following:

- (a) 2010 or higher version,
- (b) Times New Roman font, and
- (c) font size-12 points.

(iii) Using MS Word, formulae should be typed with

- (a) **MathType** (<http://www.wiris.com/mathtype>) and should be easily editable, if the manuscript would be accepted for publication, or
- (b) **Word's Equation Editor**, only if MS Office 365 is used.

2. **Section titles should be with font size 14 points and bold**, capitalizing only the first word of the titles.

3. **Subsection titles should be with font size 12 points and bold**, capitalizing only the first word of the titles.

4. **Margins** should be 1, 1, 1, and 1 inches, up, down, right and left, respectively.

5. **Paragraphs** should not be indented.

6. There should be one **single space between paragraphs**.

7. There should be a **space between the Section Title and the paragraph** that follows it.

8. Leave a **space after titles** such as "Definition", "Theorem", "Proof", Example, Case, etc.

9. The word "**Proof**" for a theorem should be **bold, italic**, with a colon after it and a space before and after it, such as: "***Proof:***".

10. There should be **space between words**.
11. There should be one **space between text and a stand-alone formula**.
12. **All formulae** must be either **indented 0.3 inches** from the left or be **centered**.
13. An **equation's number** should be on the extreme right of it.
14. A bracketed formula should not contain more than 3 lines. However, a **block of large set of formulas** should be broken with no block larger than 2 lines.
15. Proper **punctuations** (.", ":", ":", ":", ":", ".") should be inserted in appropriate places, particularly, at the end of formulas.
16. Use "therefore" for "triangular three dots".
17. Normally, ",", goes before "where".
18. There should be a ", ' before and after "i.e."
19. **Long paragraphs** should be broken into short ones.
20. All **mathematical symbols** and formulae should follow the mathematical standards such as italicization, etc.
21. **Number of dots** for "etcetera" should be only three, as "...".
22. **References within the text** should be as, for example, Montazer-Haghighi (1976), Haghighi and Wickramasinghe (2020), or Haghighi et al. (2011).
23. In **citing a paper with more than two authors**, the last name of the first author followed by "et al." should be used. However, in References at the end, all authors' names, with last name first, should be listed.
24. For **References at the end**, no number, bracket or bracketed number should be used.
25. **"Equation" and "Figure"** should not be abbreviated. "Eq.", "Eqs.", "Fig.", that is, "Figs." must be spelled out.
26. **Tables** need to have titles (or description) and they should be written on top of the tables. They should not be longer than one sentence and should not have ending punctuation. No table should exceed the margin of the document. For instance, "**Table 1**. Result of Data Analysis for Example 1.2"
27. **Figures** need to have captions (or descriptions) and they should be written below the figures. They should not be longer than one sentence and should not have ending punctuation. No figure should exceed the margin of the document. For instance, "**Figure 1**. Graph of a tandem queue with splitting"
28. **Statement of Theorems, Definition, etc.** should not be italicized.
29. A **numbered formula** should not include a text expression unless it is a part of the formula.

30. A **long formula** must be broken into parts to fit a line according to the AAM standards. No formula should extend into the margins of the document.
31. In a broken formula, **arithmetic operators** (“+”, “-”, “/” and “.” or “x”) such as addition and multiplication should be on the left of the continued line).
32. All theorems, lemmas, and corollaries must have full proofs.
33. There should be no statement such as ‘it is clear’, ‘it is obvious’, ‘for proof refer to xxx’.
34. Here are some examples for formatting “Definition”, “Theorem”: etc.:

**Definition 1.1.**

Statements.

^^^^^^^^^^^^^^^^^^^^

**Theorem 1.1.**

Statements.

^^^^^^^^^^^^^^^^^^^^

**Lemma 1.1.**

Statements.

^^^^^^^^^^^^^^^^^^^^

***Proof:***

Statements.

35. All propositions, lemmas and theorems must have complete proofs. Statements such as “it is obvious”, “it is easy”, etc. is not acceptable.
36. **REFERENCES** at the end of the text must be presented as examples below:

## REFERENCES

**(a) Books/ Book Series:**

Haghighi, A.M. (1976). *Theory of Functions of a Complex Variable* (third edition), Institute of Statistics and Informatics, Tehran, Iran.

Haghighi, A.M. and Wickramasinghe, I.R. (2020). *Probability, Statistics and Stochastic Processes for Engineers and Scientists*, Taylor and Francis Group, CRC Press, Boca Raton, Florida, USA.

- Haghighi, A.M. and Mishev, M.P. (2014, Second Edition). *Queuing Models in Industry and Business*, Second Edition 2014. Nova Science Publishers, Inc., New York.
- Haghighi, A.M. and Mishev, M.P. (2013), *Difference and Differential Equations with their Applications in Queuing Theory*, John Wiley & Sons Inc.
- Haghighi, A.M. and Mishev, M.P. (2016). *Delayed and Network Queues*, Wiley and Sons, New Jersey.

**(b) Journal Papers:**

- Haghighi, A.M. and Mishev, D.P. (2016). Stepwise explicit solution for the joint distribution of queue length of a *MAP* single-server service queueing system with splitting and varying batch size delayed-feedback, *Int. J. Mathematics in Operational Research*, Vol. 9, No. 1, pp. 39-64.
- Haghighi, A.M. and Mishev, D.P. (2016). Busy period of a single-server Poisson queueing system with splitting and batch delayed-feedback, *International Journal of Mathematics in Operations Research (IJMOR)*, Vol. 8, No. 2, pp. 239-257.
- Haghighi, A.M., Chukova, S. and Mishev, D.P. (2011). Single-server Poisson queueing system with delayed-feedback: Part 1, *International Journal Mathematics in Operational Research (IJMOR)*, Vol. 3, No. 1.

**(c) Papers in Collected Papers:**

- Durham, S.D., Flurnoy, N. and Haghighi, A.M. (1995). Up-and-Down Designs II: Exact Treatment Moment. In *Adaptive Designs: Institute of Mathematical Statistics Lecture Notes - Monograph Series* (Nancy Flurnoy and William F. Rosenberger, Editors), Volume 25, pp. 158-178, Institute of Mathematical Statistics.