



**TYPE of the PAPER (ARTICLE/REVIEW/EDITORIAL, etc.)**

## Title

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### ABSTRACT

Please type your abstract here. Abstract of a research paper is typically 200 to 400 words in length, and 150 to 300 words for a review paper. Abstract shall be running continuously (not structured) and shall not include reference citations. Abbreviations that appear only once in the abstract should be defined in full. If abbreviations appear more than once, the full definitions should be provided first before they can be used elsewhere.

### KEYWORDS

Keyword 1; keyword 2; keyword 3 (List 3 to 10 pertinent keywords specific to the article yet reasonably common within the subject discipline.)

## Glossary/Nomenclature/Abbreviations

Term 1	Interpretation 1
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Term 3	Interpretation 3
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## 1 Introduction

Authors are required to adhere to this Microsoft Word template in preparing their manuscripts for submission. In introduction, authors should provide a context or background for the study (that is, the nature of the problem and its significance). State the specific purpose or research objective of, or hypothesis tested by, the study or observation. Cite only directly pertinent references, and do not include data or conclusions from the work being reported.

## 2 Structure

A paper for publication should be divided into multiple sections: a Title, Full Names of all the Authors including their Affiliations, a concise Abstract, a list of Keywords, Main Text (including Figures, Equations, and Tables), Acknowledgments, Funding Statement, Author Contributions, Availability of Data and Materials, Ethics Approval, Conflict of Interests, Supplementary Materials (if any), References, and Appendices (if any).



## 2.1 Text Layout

Paper size: US Letter (8.5" × 11" or 21.59 cm × 27.94 cm).

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- (a) Title: 14 pt.
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Use 2-character indent on the first line of each new paragraph. Use single line spacing, 3 pt. spacing after the paragraph. All levels of headings should use 12 pt. spacing before, 3 pt. after.

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Please capitalize all initial letters of substantives of headings.

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Equations and mathematical expressions must be inserted into the main text. Please use MathType editor or the equation editor of MS Word to edit the equations. Consistently use one of the equation editors (MathType or equation editor of MS Word) for one article. Do not use image or direct hand typing the equations. Two different types of styles can be used for equations and mathematical expressions. They are: in-line style, and display style.

### 3.1 In-Line Style

In-line equations/expressions are embedded into the paragraphs of the text. For example,  $E = mc^2$ . In-line equations or expressions should not be numbered and should use the same/similar font and size as the main text.

### 3.2 Display Style

Equations in display format are separated from the paragraphs of the text. Equations should be flushed to the left of the column. Equations should be made editable. Displayed equations should be numbered consecutively, using Arabic numbers in parentheses. See Eq. (1) for an example. The number should be aligned to the right margin:

$$E = mc^2, \tag{1}$$

the text following an equation need not be a new paragraph. Please punctuate equations as regular text. When citing multiple equations, please use the format: Eqs. (1) and (2), Eqs. (1)–(3).

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Theorem-type environments (including propositions, lemmas, corollaries etc.) can be formatted as follows:

**Theorem 1.** *Example text of a theorem (Text should be italic). Theorems, propositions, lemmas, etc. should be numbered sequentially (i.e., Theorem 2 follows Theorem 1). Examples or Remarks use the same formatting, but should be numbered separately, so a document may contain Theorem 1, Remark 1 and Example 1.*

The text continues here. Proofs must be formatted as follows:

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The first citation of figures and tables in the main text must follow a sequential order.

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Figure labels must be sized in proportion to the image, sharp, and legible. Label size should be no smaller than 8-point and no larger than the font size of the main text. Labels must be saved using standard fonts (Arial, Helvetica or Symbol font) and should be consistent for all the figures. All labels should be in black, and should not be overlapped, faded, broken or distorted. A space must be inserted before measurement units. The first letter of each phrase, not each word, must be capitalized.

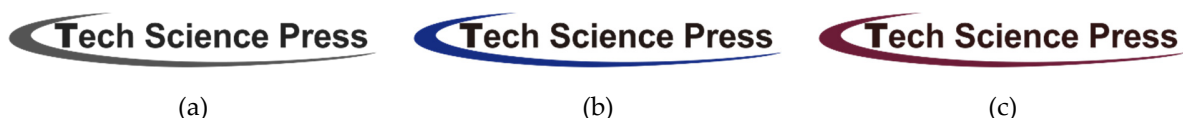
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**Figure 1:** This is a figure example. Please remove all non-English terms or add a definition for them

If the caption has more than one line, the text should be justify aligned on both ends. For one example, see Fig. 2 below.



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When citing multiple figures, please use the format: Figs. 1 and 2, Figs. 1–3, Fig. 3a,b, Fig. 4a–c.

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Tables should also be numbered consecutively using Arabic numbers. They should be placed in the text soon after the point where they are referenced. Tables should be centered and should have a table caption placed above.

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Captions should be centered in the format “**Table 1:** The text caption ...”. For one example, see Table 1. If the caption has more than one line, the text should be justify aligned on both ends.

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## References

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- [1] H. S. Rhee, “Chosen-ciphertext attack secure public-key encryption with keyword search,” *Comput. Mater. Contin.*, vol. 73, no. 1, pp. 69–85, Oct. 2022. doi: 10.32604/cmc.2022.026751.
  - [2] H. H. Al-Khshali and M. Ilyas, “Impact of portable executable header features on malware detection accuracy,” *Comput. Mater. Contin.*, vol. 74, no. 1, pp. 153–178, Jan. 2023. doi: 10.32604/cmc.2023.032182.
  - [3] P. Khandelwal, Harshit, and I. Manna “Intelligent Design of High Strength and High Conductivity Copper Alloys Using Machine Learning Assisted by Genetic Algorithm,” *Comput. Mater. Contin.*, vol. 79, no. 1, pp. 1727–1755, Apr. 2024. doi: 10.32604/cmc.2024.042752
  - [4] Y. Dong, K. Zhao, L. Gao, and H. Li “A Hybrid Level Set Optimization Design Method of Functionally Graded Cellular Structures Considering Connectivity,” *Comput. Mater. Contin.*, vol. 79, no. 1, pp. 1–18, Apr. 2024. doi: 10.32604/cmc.2024.048870
  - [5] Y. H. Long, J. Zhong, T. D. Zhang, L. Chen, and L. J. Zhang “Multiscale Simulation of Microstructure Evolution during Preparation and Service Processes of Physical Vapor Deposited c-TiAlN Coatings,” *Comput. Mater. Contin.*, vol. 79, no. 3, pp. 3435–3453, Jun. 2024. doi: 10.32604/cmc.2024.051629
  - [6] M. Shoeibi, M. M. S. Nevisi, R. Salehi, D. Martín, Z. Halimi, and S. Baniasadi “Enhancing Hyper-Spectral Image Classification with Reinforcement Learning and Advanced Multi-Objective Binary Grey Wolf Optimization,” *Comput.*

*Mater. Contin.*, vol. 79, no. 3, pp. 3469–3493, Jun. 2024. doi: 10.32604/cmc.2024.049847

- [7] Y. Hong *et al.*, “A novel approach for image encryption with chaos-RNA,” *Comput. Mater. Contin.*, vol. 77, no. 1, pp. 139–160, Oct. 2023. doi: 10.32604/cmc.2023.043424.

*Journals in non-English Languages:*

- J. K. Author, “Name of paper,” (in Language), *Abbrev. Title of Journal*, vol. x, no. x, pp. xxx–xxx, Abbrev. Month, Year. doi: 10.xxxx/xxxxxxx.
- [8] E. P. Wigner, “On a modification of the Rayleigh–Schrodinger perturbation theory,” (in German), *Math. Naturwiss. Anz. Ungar. Akad. Wiss.*, vol. 53, p. 475, 1935.

*Paper has not yet been Accepted or Scheduled for Publication:*

- J. K. Author, “Name of paper,” submitted for publication.
- [9] C. K. Kim, “Effect of gamma rays on plasma,” submitted for publication

*Paper has been Accepted or Scheduled for Publication (but has not been published as early access):*

- J. K. Author, “Name of paper,” *Abbrev. Title of Journal*, to be published. doi: 10.xxxx/xxxxxxx.
- [10] E. H. Miller, “A note on reflector arrays,” *IEEE Trans. Antennas Propag.*, to be published.

*Journals in Early Access:*

- J. K. Author, “Name of paper,” *Abbrev. Title of Journal*, early access, Abbrev. Month, Year. doi: 10.xxxx/xxxxxxx.
- [11] F. Vatta, A. Soranzo, and F. Babich, “More accurate analysis of sum-product decoding of LDPC codes using a Gaussian approximation,” *IEEE Commun. Lett.*, early access, Dec. 11, 2018. doi: 10.1109/LCOMM.2018.2886261.

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- [12] S. N. Atluri, *The Meshless Method (MLPG) for Domain & BIE Discretization*. Henderson, NV, USA: Tech Science Press, 2004.

*Books with Chapter Title:*

- J. K. Author, “Title of chapter in the book,” in *Title of the Published Book*, xth ed. (if available). City of Publisher, (only U.S. State), Country: Abbrev. of Publisher, Year, ch. x (optional), sec. x (optional), pp. xxx–xxx (optional).
- [13] S. N. Atluri and S. Shen, “Global weak forms, weighted residuals, finite elements, boundary elements & local weak forms,” in *The Meshless Local Petrov-Galerkin (MLPG) Method*, 1st ed. Henderson, NV, USA: Tech Science Press, 2004, pp. 15–64.

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  - X. Editor, Ed. *Title of the Published Book*. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, Year, ch. x (optional), sec. x (optional), pp. xxx–xxx (optional).
- [14] L. Stein, "Random patterns," in *Computers and You*, J. S. Brake, Ed., New York, NY, USA: Wiley, 1994, pp. 55–70.
- [15] W. R. Leonard and M. H. Crawford, Eds. *Human Biology of Pastoral Populations*. New York, NY, USA: Cambridge Univ. Press, 2002.

*Book Translated:*

- J. K. Author, "Title of chapter in the book," in *Title of the Published Book*, X. Editor and Y. Editor, Eds., xth ed. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher (in Language), Year, ch. x (optional), sec. x (optional), pp. xxx–xxx (optional).
- [16] K. Ichiro, *Thai Economy and Railway 1885–1935*, Tokyo: Nihon Keizai Hyoronsha (in Japanese), 2000.

*Books Online:*

- J. K. Author, "Title of chapter in the book," in *Title of the Published Book*, xth ed. (if available). City of Publisher, (only U.S. State), Country: Abbrev. of Publisher, Year, ch. x (optional), sec. x (optional), pp. xxx–xxx (optional). [Online]. Available: <http://www.web.com>
- [17] G. O. Young, "Synthetic structure of industrial plastics," in *Plastics, vol. 3, Polymers of Hexadromicon*, J. Peters, Ed., 2nd ed. New York, NY, USA: McGraw-Hill, 1964, pp. 15–64. [Online]. Available: <http://www.bookref.com>.

**Conference Papers:***Basic Format:*

- J. K. Author, "Title of paper," presented at the Abbreviated Name of Conf., City of Conf., Abbrev. State, Country, Month and Day(s), Year, Paper number.
- [18] D. Caratelli, M. C. Viganó, G. Toso, and P. Angeletti, "Analytical placement technique for sparse arrays," presented at the 32nd ESA Antenna Workshop, Noordwijk, The Netherlands, Oct. 5–8, 2010.

*Conference Papers Online:*

- J. K. Author. (Date). Title of paper. Presented at Abbreviated Name of Conf. [Online]. Available: <http://www.web.com>
- [19] J. A. Taylor. (Nov. 2006). Assessment: A tool for development and engagement in the first year of university study. Presented at Engaging Students: 9th Pacific Rim in Higher Education (FYHE) Conf., Griffith, Australia. [Online]. Available: [http://www.fyhe.com.au/past\\_papers/2006/Papers/Taylor.pdf](http://www.fyhe.com.au/past_papers/2006/Papers/Taylor.pdf)

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- [20] Amador-Perez and R. A. Rodriguez-Solis, "Analysis of a CPW-fed annular slot ring antenna using DOE," in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, Albuquerque, NM, USA, Jul. 9–14, 2006, pp. 4301–4304.



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- [21] Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, A. Amador-Perez and R. A. Rodriguez-Solis, Eds. Jul. 9–14, 2006, pp. 4301–4304.

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- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, in Volume Title, in Series Title, ed., (Location of conference is optional), (Month and Day(s) if provided) Year, pp. xxx–xxx.
- [22] Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in *Proc. IEEE Antennas Propag. Soc. Int. Symp.*, in Slot Ring Antennas II, vol. 3, 2nd ed., Jul. 9–14, 2006, pp. 4301–4304.

*Conference Proceedings Online:*

- J. K. Author, “Title of paper,” in *Abbreviated Name of Conf.*, (Location of conference is optional), (Month and Day(s) if provided) Year, pp. xxx–xxx. [Online]. Available: <http://www.web.com>
- [23] J. Yanamadala *et al.*, “Segmentation of the visible human project (VHP) female cryosection images within MATLAB environment,” in *Proc. 23rd Int. Meshing Roundtable*, London, UK, Oct. 2014. [Online]. Available: [https://www.sandia.gov/imr/Papers/IMR23\\_ResearchNote8\\_Yanamadala.pdf](https://www.sandia.gov/imr/Papers/IMR23_ResearchNote8_Yanamadala.pdf)

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  - J. K. Author, “Title of dissertation,” Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, Country, Year.
- [24] N. Kawasaki, “Parametric study of thermal and chemical nonequilibrium nozzle flow,” M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.
- [25] J. O. Williams, “Narrow-band analyzer,” Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, USA, 1993.

*Theses Online:*

- J. K. Author, “Title of thesis,” M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, Country, Year. [Online]. Available: <http://www.web.com>
- [26] D. Schwartz, “Development of a computationally efficient full human body finite element model,” M.S. thesis, Virginia Tech—Wake Forest Univ. School of Biomed. Eng. Sci., Winston-Salem, NC, USA, 2015. [Online]. Available: [https://wakespace.lib.wfu.edu/bitstream/handle/10339/57119/Schwartz\\_wfu\\_0248M\\_10697.pdf](https://wakespace.lib.wfu.edu/bitstream/handle/10339/57119/Schwartz_wfu_0248M_10697.pdf)

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- J. K. Author, “Title of patent,” U.S. Patent xxx, Abbrev. Month Day, Year (Issued date).

- J. K. Author, "Title of patent," Country Patent xxx, Abbrev. Month Day, Year (Issued date).

[27] J. P. Wilkinson, "Nonlinear resonant circuit devices," U.S. Patent 3624125, Jul. 16, 1990.

[28] K. Klionovski, "Broadband dual-band microstrip antenna," (in Russian), RU Patent Utility Model 167296, Dec. 27, 2016.

#### *Patents Online:*

- Name of the invention, by Inventor's name. (Year, Month Day). Patent Number [Type of medium]. Available: site/path/file

[29] Screwless clip mounted computer drive, by D. Williams (2005, Apr. 26). U.S. Patent 6885550 [Online].

Available: <https://www.freepatentsonline.com/6885550.html>

#### **Standards:**

##### *Basic Format:*

- *Title of Standard*, Standard Number, Corporate author (Optional), location (Optional), (Month and Day(s) if provided) Year.

[30] *Parameter Values for Ultra-High Definition Television Systems for Switzerland, Production and International Programme Exchange*, Recommendation ITU-R BT.2020-2, International Telecommunications Union, Geneva, Switzerland, Oct. 2015.

##### *Standards Online:*

- *Title of Standard*, Standard Number, Corporate author (Optional), location (Optional), (Month and Day(s) if provided) Year. [Online]. Available: <http://www.web.com>

[31] *Frequency Response and Bias*, NERC Reliability Standard BAL-003-0.1b, May 2009. [Online]. Available: [http://www.nerc.com/files/BAL-003-0\\_1b.pdf](http://www.nerc.com/files/BAL-003-0_1b.pdf)

#### **Preprint arXiv**

- J. K. Author, "Title of paper," year, *arXiv:number*

[32] S. Urazhdin, N. O. Birge, W. P. Pratt Jr., and J. Bass, "Current-driven magnetic excitations in permalloy-based multilayer nanopillars," 2003, *arXiv:0303149*.

#### **Report:**

- J. K. Author, "Title of report," Abbrev. Name of Co., City of Co., Abbrev. State, Country, Rep. xxx, Year.

[33] E. E. Reber, R. L. Michell, and C. J. Carter, "Oxygen absorption in the Earth's atmosphere," Aerospace Corp., Los Angeles, CA, USA, Tech. Rep. TR-0200 (4230-46)-3, 1988.

#### **Handbook and Manul**

##### *Handbook and Manuals (print)*

- *Name of Handbook/Manual*, xth ed., Abbrev. Name of Co., City of Co., Abbrev. State, Country, Year, pp. xxx–xxx (when applicable).

[34] *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, USA, 1989.

*Handbook and Manuals (online)*

- J. K. Author (or Abbrev. Name of Co., City of Co. Abbrev. State, Country). *Name of Manual/Handbook*, x ed. (Year). Accessed: Date. [Online]. Available: <http://www.web.com>
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**Datasets:***Basic Format:*

- Author. Date, Year. "Title." distributed by Publisher/Distributor. <http://www.web.com> (or if DOI is used, end with a period)
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*Online Dataset Reference Using a Website Address:*

- Author, Date, "Title of Dataset," Source. [Online]. Available: <http://www.web.com>

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- J. K. Author. Title of Software. (Version or Date Repository or Archive). Publisher Name. Accessed: Date (when applicable). [Type of Medium]. Global Persistent Identifier. Available: <site/path/file>
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- J. K. Author, private communication, Abbrev. Month, Year.
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**Appendix A**

The appendix is an optional section that can contain details and data supplemental to the main text. Authors that need to include an Appendix section should place it after the References section. Multiple appendices should all have headings in the style used for above. They should be ordered as such: A, B, and C etc.

**Appendix B**

All appendix sections must be cited in the main text. In the appendices, Figures, Tables, etc. should be labeled starting with “A”—e.g., Figure A1, Figure A2, etc.