

## Call for Papers

Papers are invited for 2021 issue of *Journal of Physical Sciences*

*Journal of Physical Sciences* is a peer reviewed journal published by the Department of Computer Science, HPU, Shimla. The aim of the journal is to disseminate the scientific research leading to the advancement of knowledge in the realm of technology. The journal attempts to bring together the scholarly work in the diverse areas of computer science. The unpublished original research papers of length 10-pages (Max.) are invited latest by **March 23, 2021**.

### Scope of Journal

The journal covers the general concepts of computer science with emphasis on currents trends in the field of technology. Topics of interest include but are not limited to the following:

- 4G/5G Network Evolution
- Ad-Hoc, Mobile, Wireless Networks and Mobile Computing
- Advanced Numerical Algorithms
- Aero-Space Systems (Avionics, Unmanned Aerial Vehicles, Aviation Control)
- Analog and Digital Hardware Systems (Real-time Systems, Embedded Systems, Hybrid Embedded Systems, Mixed Signal Designs, Multi-media Systems)
- Architectures and Computation Models, Compiler, Hardware and OS Issues
- Authentication/Authorization Issues
- Bigdata (Data Mining, Data Warehouses, Sensor Networks, Data Classification, Regression)
- Bio-metrics System (sensors, integration, data analysis, verification techniques)
- Bio-surveillance Systems (heterogeneous data sources, monitoring techniques, signal detection algorithms, privacy protection )
- Complex Systems: Modeling and Simulation
- Computational Intelligence, Granular Computing and Soft Computing
- Computational Science Aspects of Data Mining, Information Retrieval and Text Mining
- Computer Assisted Medical Diagnostic Systems (single and multiple modality medical data analysis, expert systems, prompting systems, databases, performance evaluation)
- Cryptography and Foundation of Computer Security
- Data Base Management Systems (DBMS) & Information Retrieval
- Data Visualization and Virtual Reality
- Digital Signal Processing
- Distributed Computer and Computer Networks Systems (Modeling and Analysis, Distributed and Wireless Systems, Distributed Servers, Parallel and Distributed Systems, Networks)
- e-Business Applications
- Foundations of High-performance Computing
- Gaming and Entertainment Systems (Technology, Security, Design, Tools)
- Hardware/Software Co-design and VLSI Support
- Hybrid Computational Methods
- IDS/Firewall, Anti-Spam mail, Anti-virus issues
- Industrial Automation and Robotics

- Information and Communication Systems (Information and Communication Theory, Geographic Information Systems, Global Position Systems, Applications)
- Intelligent Systems (Expert Systems, Artificial Intelligence, Neural Network, Fuzzy, Optimization Techniques, Hybrid Systems, Applications)
- Internet of Things (Smart Cities, Precision Agriculture, Industrial IoT)
- Machine Learning and Analytics (Deep Learning)
- Middleware and Cloud Computing
- New Algorithmic Approaches to Computational Kernels and Applications
- PKI(Public Key Infrastructures)
- Possibility Theory, Bayes Network and Hidden Markov Models
- Problem Solving Environments
- Quality of Services and Communication Protocol
- Scientific and Engineering Computing
- Security (Networks, IoT, Distributed Systems, Embedded Systems, Cloud Computing)
- Systems Engineering Education
- Systems Engineering Standards, Modeling, Paradigms, Metrics, Testing, Management, Optimization, Simulation, Scheduling, Reliability and Fault Tolerant
- Theory of Parallel Processing and Distributed Computing
- Web-based and Grid-based Computing and Simulation
- Wireless Security System

Any other topics relevant to latest trends in Computer Science and Information Technologies

## **Guide for Authors**

Submission of an article implies that the work described has not been published previously, and it is not under consideration for publication elsewhere and its publication is approved by all authors. If accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder.

### **Contact details for submission**

Articles should be submitted to the **Email ID: [chairmancsd.hpu@gmail.com](mailto:chairmancsd.hpu@gmail.com)**

### **Contributions falling into the following categories will be considered for publication:**

**Regular Papers** · Original high-quality research papers (preferably no more than (4000 words) or 6 single -line-spaced manuscript pages, including tables and figures/illustrations). The tables and figures should not be more than 4 numbers. Font of the manuscript should be 10, Times New Roman except in case of title where font should be 12 BOLD, Times New Roman.

**Review Papers** · Authors interested in writing review articles should contact the appropriate Chief Editor before submitting their contribution. (Preferably no more than 6000 words) or 8 single -line-spaced manuscript pages, including tables and figures/illustrations). The tables and figures should not be more than 4 numbers. Font of the manuscript should be 10, Times New Roman except in case of title where font should be 12 BOLD, Times New Roman.

### **Article Structure**

Author should arrange the contribution in the following order:

1. Title: The paper title should be short, specific and informative. Avoid abbreviations and formulae where possible. The maximum length of title should be within 150 characters.

2. Author names and affiliations: Please clearly indicate the given name(s) and family names of each author. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

3. Abstract: Self contained abstract of approximately 250 words, in a single paragraph outlining the aims, scope and conclusions of the paper.

4 Keywords: Immediately after the abstract provide a maximum of 6 keywords.

5. Text: The text be suitably divided under headings. Introduction, Material and Methods, Experimental, Results and Discussion, Conclusions, References. Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Any subsection may be given a brief heading. Each heading should appear on its own separate line.

6 References (not more than 30 numbers and following the journal style). References: Citation in text. Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Indicate references by number(s) in square brackets in line with the text e.g. [1], [1,2], [1-4]..

7. Acknowledgments (if any).

8. Tables and Figures (At the end of the manuscript). Figures and tables should be numbered in Arabic numerals. In the text they should be referred to as Fig. 1, Table 2, e.g. 3 etc. (not as fig. 1, figure 1; tab. 2, table 2). A calibration bar should be given on all micrographs. Please submit tables as editable text and not as images.

9. Math formulae

Please submit math equations as editable text and not as images. Present simple formulae in line with normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

10. Reference style

Reference to a journal publication:

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51-59. <https://doi.org/10.1016/j.Sc.2010.00372>.

Reference to a journal publication with an article number:

[2] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, 2018. The art of writing a scientific article. *Heliyon*. 19, e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>.

Reference to a book:

[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York. 2000.

Reference to a chapter in an edited book:

[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281-304.

Reference to a website:

[5] Cancer Research UK, *Cancer statistics reports for the UK*.  
<http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March, 2003).

#### 11. Ethics in publishing

The authors should ensure that they have written entirely original works, and if the authors have used the work and/or words of others, that this has been appropriately cited or quoted and permission has been obtained where necessary. Plagiarism in all its forms constitutes unethical behaviour and is unacceptable.