How to Write Research Papers

By

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Paper Writing

Research paper format

1	Title	Description of your research work	1-2 lines (20 words)
2	Abstract	Brief Description of you Work, motivation, novelty, methodology	10-15 lines (200 words)
3	Keywords	Keywords describe domain and methodology	5-6 words
4	Introduction	Description of the problem, related work, literature survey and paper organization	1½ to 2 page
5	Materials and Methods	Description of the Dataset and methods used	1½ to 2 page
6	Proposed Methodology	Description of the proposed methods	1 to 1½ page
7	Results and Discussion	Comparison of the results and discussion on it.	1½ to 2 page
8	Conclusion	Conclusion of the complete work and future directions	10-15 lines (200 words)
9	References	List of papers that are referred	10-20 papers

1. Title

It should be self-explanatory, clear and short.

Example:

- 1. Automated Audio Genre Classification using Ensembled Techniques
- 2. Quality assessment of modeled protein structure using physicochemical properties
- 3. Multilevel ensemble model for prediction of IgA and IgG antibodies
- 4. Fraudulent Firm Classification: A Case Study of an External Audit
- 5. Ensemble Technique for Prediction of T-cell *Mycobacterium tuberculosis* Epitopes
- **6. Tox2020:** Toxicity Prediction of pre clinical trial drug using Physicochemical Properties and Machine Learning Approaches
- 7. SmartGlucoBinder: Design and Synthesis of Small Glucose Binder Molecule using Computational Intelligence Approach

Authors Names

Format:

Correct Example:

Automated Audio Genre Classification using Ensembled Techniques Nishtha Hooda, Seema Bawa, and Prashant Singh Rana

Computer Science and Engineering Department, Thapar University, Patiala, India Email: psrana@gmail.com

Fraudulent Firm Classification: A Case Study of an External Audit Harish Sharma¹ and Prashant Singh Rana²

¹Computer Science and Engineering Department, RTU, Kota, Rajasthan, India ²Computer Science and Engineering Department, Thapar University, Patiala, India Email: hsharma@rtu.ac.in; psrana@gmail.com

Authors Names

Incorrect Example:

Mr Harish Sharma (BE 3rd Year Student) and Dr. Prashant Singh Rana (Assistant Professor)

WZ-192, Uttam Nagar, New Delhi, India

Mr Harish Sharma (Student) and Prof Prashant Singh Rana

Computer Science and Engineering Department, Thapar University, Patiala, India

My Email is: Hsharma@gmailcom

Tips:

- Avoid Mr, Ms, Mrs, Dr., Prof., position name with name
- Use college or company as affiliation
- Always use email.

2. Keywords

Paper Title: Automated Audio Genre Classification using Ensembled Techniques

Keywords: Audio Signals, Machine learning, Music Genre, Classification, Music Information Retrieval, Topsis

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- 01 Automated Audio Genre Classification using Ensembled Techniques
- 02 Quality assessment of modeled protein structure using physicochemical properties
- 03 Multilevel ensemble model for prediction of IgA and IgG antibodies
- 04 Fraudulent Firm Classification A Case Study of an External Audit
- 05 Ensemble Technique for Prediction of T-cell Mycobacterium
- 06 Classification of drug molecules for oxidativestress signalling pathway

Do's and Don't

Research Paper must be well written.

Don't DoWhich is smarter? Which will get the job?



Do

- I wrote a program
- It reads the data
- It puts the data points into space
- It uses examples to build a hyper-plane It assigns labels to the data, + and -

Don't

- I used supervised learning
- I used SVM classifier

Do

 Given our considerations laid out in the current section, one can easily conclude that in fact the variable a can be regarded to be equal to variable b

Don't

• Thus, *a* = *b*

Good vs Bad Proposal

Good Proposal

- solid,
- easy to follow
- good state of the art overview
- detailed report of experiments

Bad Proposal

- bad English
- inconclusive
- hard to follow, important details omitted

Where to submit the Paper

1. Journals

- Springer
- IEEE
- Tayler & Francis
- Elsevier

2. Conference

- CVPR
- ICML

Comparison b/w Journals and Conferences

	Journals	Conference
Acceptance Duration	2 to 12 months	2 to 4 months
Fee	Free, Paid	Paid (5k to 30k)
Number of Pages	8 to 100 pages	8 to 15 pages

Explore CVPR and ICML

Google it

- CVPR 2023
- ICML 2023

Conference Info

- Google it "Conference Alert"
- psrana.com → Join "RanaResearchGroup"

Tips and Tricks

- 1. Add maths as much as possible
- 2. Add Graphs and Tables
- 3. Add discussion and analysis part
- 4. Use ChatGPT for
 - Introduction
 - Literature Review
 - Discussion section
 - Minimize the Plag (Re-write the text)

Thanks

Q & A

Learning by Doing

Contact
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