What is a Conference Paper?

Conference:

A conference is an event where researchers worldwide can participate and present their research in front of other researchers.

The conference enable researchers to meet with other researchers, seek feedback on their research, strengthen their network, and establish research collaborations.

For students in the early research phase, it is advisable to participate in the conferences, present their research, seek comments and suggestions, and establish a collaborative network.

Top Conferences in Computer Vision, Computer Science and Robotics

- CVPR (Conference on Computer Vision and Pattern Recognition)
- ICCV (International Conference on Computer Vision)
- ECCV (European Conference on Computer Vision)
- NeurIPS (Neural Information Processing Systems)
- ICML (International Conference on Machine Learning)
- ICRA (International Conference on Robotics and Automation)

To participate in the conference, researchers draft the summary of the research work in 4-5 pages as per the predefined format and upload it to the conference website.

Subsequently, the paper would be peer-reviewed by the review panel. The review process follows a fixed timeline.

If the paper is accepted, authors will be invited to register and present their paper during the conference.

The final paper will be published once the paper is presented during the conference. The conference's presented papers collection is often known as the conference proceedings.

What is a Journal Paper?

Journal:

A journal is a platform that publishes research articles periodically, be it quarterly, monthly or yearly.

The Journal articles are full-length comprehensive compared to the conference papers demanding rigorous and extensive research work.

The communicated research papers to the journals go through a rigorous review process, which is highly sophisticated than the conference review process.

An article can go through multiple peer review iterations demanding major or minor revisions.

The accepted papers will be published online within a few days or months of acceptance.

In contrast with the conference papers, there is no physical gathering and presentations. All the communication would be through emails or through journal's website.

Journal papers hold a higher value

Top Journals in Computer Vision, Computer Science and Robotics

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Image Processing
- Journal of the ACM (JACM)
- Communications of the ACM (CACM)
- IEEE Transactions on Computers
- IEEE Transactions on Robotics
- The International Journal of Robotics Research (IJRR)
- Autonomous Robots

Research vs. Review: Comparing Academic Paper Types

- Review papers only summarize the current knowledge on a topic
- Research Papers performs an evaluation and updates there current knowledge.
- Case Study: In-depth analysis of a particular case or example.
- Technical Report: Detailed documentation of a research project, often including code, data, and experimental results.
- Conference Paper: Shorter version of a research paper presented at a conference.
- Dissertation or Thesis: A comprehensive document submitted for an academic degree.

Research papers hold a much higher value than review papers

Where to submit your research paper:

- Use journal suggester tools:

  Search for "journal suggester" or "journal finder" online

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