

systematic collection, analysis and interpretation of data to answer a certain question or solve a problem

- Research

systematic investigation of scientific theories and hypotheses

- Scientific research

The first stage of any research is

- observation

It is the way in which we conduct research

- Research method

The study of the research method

- Research methodology

The tools we are using to collect and infer data

- Research technique

A clear and testable proposition or predictive statement to answer a research question

- Hypothesis

needed when we have statistical hypothesis testing

- Null hypothesis

Algorithmic study, investigation and development of computer-related phenomena

- Computer science

One of scientific paper parts that will help you to determine if an article is interesting or relevant for your project

- Title

One of scientific paper parts that will provide you with a complete, but very succinct summary of the paper.

- Abstract

One of scientific paper parts that contains brief statements of the purpose, methods, results, and conclusions of a study.

- Abstract

One of scientific paper parts that usually describes the theoretical background, indicates why the work is important, states a specific research question, and poses a specific hypothesis to be tested.

- Introduction

One of scientific paper parts that determine exactly how the authors performed the experiment.

- Methods

One of scientific paper parts that describes both specific techniques and the overall experimental strategy used by the scientists.

- Methods

One of scientific paper parts which considered the heart of a scientific paper and contains the data collected during experimentation

- Results

In result section, much of the important information may be in the form of

- tables or graphs

One of scientific paper parts that will explain the authors interpret their data and how they connect it to other work.

- discussion & conclusion

One of scientific paper parts that considered as a place where authors can suggest areas of improvement for future research.

- discussion & conclusion

One of scientific paper parts that tells you what people or institutions (in addition to the authors) contributed to the work, and you can see what sources provided financial support for the study.

- Acknowledgments

One of scientific paper parts that provides the sources cited throughout the paper and offers information on the range of other studies cited.

- Literature cited (References)

### Short definitions:

- **Title:** Describe concisely the core contents of the paper
- **Abstract:** Summarize the major elements of the paper
- **Introduction:** provide context and rationale for the study
- **Literature review:** surveys scientific articles, books, journals, dissertations & other sources relevant to the research question.
- **Materials:** Describe the experimental design so it is reproducible
- **Methods:** Describe the experimental procedures
- **Results:** Summarize the findings without interpretation
- **Discussion:** Interpret the findings of the study
- **Summary (Conclusion):** Summarize the findings
- **Acknowledgement:** Give credit to those who helped you
- **References:** List all scientific papers, books and websites that you cited

### Sources of Literature

- Journal articles
- Books
- Conference proceedings
- Government/corporate reports
- Thesis and dissertations
- Internet