# TITLE OF THIS PAPER

AUTHOR 1, GANG LI, AND AUTHOR 3

Abstract. The abstract will be put here, ....

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*Date*: (None).
2020 *Mathematics Subject Classification.* Artificial Intelligence.
*Key words and phrases.* Machine Learning, Data Mining, ...

## 1. Introduction

Formula for Introduction

GLi:

A good paper introduction is fairly formulaic. If you follow a simple set of rules, you can write a very good introduction. The following outline can be varied. For example, you can use two paragraphs instead of one, or you can place more emphasis on one aspect of the intro than another. But in all cases, all of the points below need to be covered in an introduction, and in most papers, you don't need to cover anything more in an introduction.

At a high level, what is the problem area you are working in and why is it important? It is important to set the larger context here. Why is the problem of interest and importance to the larger community?

This paragraph narrows down the topic area of the paper. In the first paragraph you have established general context and importance. Here you establish specific context and background.

"In this paper, we show that ...". This is the key paragraph in the intro - you summarize, in one paragraph, what are the main contributions of your paper given the context you have established in paragraphs 1 and 2. What is the general approach taken? Why are the specific results significant? This paragraph must be really good.

You should think about how to structure these one or two paragraph summaries of what your paper is all about. If there are two or three main results, then you might consider itemizing them with bullets or in test.

- e.g., First ...
- e.g., Second ...
- e.g., Third ...

Motivation

What is the specific problem considered in this paper?

If the results fall broadly into two categories, you can bring out that distinction here. For example, "Our results are both theoretical and applied in nature. (two sentences follow, one each on theory and application)"

Contribution

Keep this at a high level, you can refer to a future section where specific details and differences will be given. But it is important for the reader to know at a high level, what is new about this work compared to other work in the area.

"The remainder of this paper is structured as follows..." Give the reader a roadmap for the rest of the paper. Avoid redundant phrasing, "In Section 2, In section 3, ... In Section 4, ... " etc.

Test citation [1]. and [2] or Beliakov et al. [2].

This is for table 1, and this is for section 5.

Number: 123. 10, 30, 50 and 70, 10 to 30, 10 m, 30 m and 45 m, and 10 %

At a high level what are the differences in what you are doing, and what others have done?

A roadmap for the rest of the paper

We have 10 Hz, kg m s$^{-1}$, the range: 10 Hz to 100 Hz. 1/2.

GLi:

A few general tips: Don't spend a lot of time into the introduction telling the reader about what you don't do in the paper. Be clear about what you do do. Does each paragraph have

Make a sketch of the structure of a trebuchet.

For eq. (1.1), as shown below:

$$a = b \times \sqrt{ab} \tag{1.1}$$

The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives.

$$\bar{x} = \frac{1}{n}\sum_{i=1}^{i=n} x_i = \frac{x_1 + x_2 + \ldots + x_n}{n}$$

Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker.

$$\int_0^\infty e^{-\alpha x^2}\mathrm{d}x = \frac{1}{2}\sqrt{\int_{-\infty}^{\infty} e^{-\alpha x^2}\mathrm{d}x}\int_{-\infty}^{\infty} e^{-\alpha y^2}\mathrm{d}y = \frac{1}{2}\sqrt{\frac{\pi}{\alpha}}$$

Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly.

$$\sum_{k=0}^{\infty} a_0 q^k = \lim_{n\to\infty}\sum_{k=0}^{n} a_0 q^k = \lim_{n\to\infty} a_0\frac{1-q^{n+1}}{1-q} = \frac{a_0}{1-q}$$

Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes.

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-p \pm \sqrt{p^2 - 4q}}{2}$$

Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs.

$$\frac{\partial^2\Phi}{\partial x^2} + \frac{\partial^2\Phi}{\partial y^2} + \frac{\partial^2\Phi}{\partial z^2} = \frac{1}{c^2}\frac{\partial^2\Phi}{\partial t^2}$$

The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife.

Table 1. Precision Comparison on Event Detection Methods

| | OR Event Detection | AC Event Detection | TC Event Detection |
|---|---|---|---|
| precision | 0.83 | 0.69 | 0.46 |
| recall | 0.68 | 0.48 | 0.36 |
| F-score | 0.747 | 0.57 | 0.4 |

## 2. Preliminaries

A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz.

GLi: Gang Li has worked up to here.

## 3. Method

Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff.

- First item in a list
- Second item in a list
- Third item in a list

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

(1) First item in a list
(2) Second item in a list
(3) Third item in a list
(4) Fourth item in a list
(5) Fifth item in a list

**First:** item in a list
**Second:** item in a list
**Third:** item in a list
**Fourth:** item in a list
**Fifth:** item in a list

QWu: Qiong Wu has worked up to here.

## 4. Experiment and Analysis

## 5. Conclusions

Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog.

Acknowledgement

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The authors would like to thank ...

## References

[1] Gleb Beliakov and Gang Li. Improving the speed and stability of the k-nearest neighbors method. *Pattern Recognition Letters*, 33(10):1296–1301, 2012.

[2] Gleb Beliakov, Simon James, and Gang Li. Learning choquet-integral-based metrics for semisupervised clustering. *Fuzzy Systems, IEEE Transactions on*, 19 (3):562–574, 2011.

## List of Todos

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A roadmap for the rest of the paper . . . 2

A few general tips: Don't spend a lot of time into the introduction telling the reader about what you don't do in the paper. Be clear about what you do do. Does each paragraph have a theme sentence that sets the stage for the entire paragraph? Are the sentences and topics in the paragraph all related to each other? . . . 2

Does each paragraph have a theme sentence that sets the stage for the entire paragraph? Are the sentences and topics in the paragraph all related to each other? . . . 2

Do all of your tenses match up in a paragraph? . . . 2

Testing. . . . 2

A note with no line back to the text. . . . 2

This is comment from Gang. . . . 2

Response from QW . . . 2

Figure: Testing figcolor . . . 2

Figure: Make a sketch of the structure of a trebuchet. . . . 2

Gang Li has worked up to here. . . . 4

Qiong Wu has worked up to here. . . . 4

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