

# Conference Paper Title\*

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**Abstract**—This document is a model and instructions for  $\text{\LaTeX}$ . This and the `IEEEtran.cls` file define the components of your paper [title, text, heads, etc.]. **\*CRITICAL: Do Not Use Symbols, Special Characters, Footnotes, or Math in Paper Title or Abstract.**

**Index Terms**—component, formatting, style, styling, insert.

## I. INTRODUCTION

This is the introduction section. PLEASE EDIT. [1]

### A. Sub Sections

This is the sub section of the introduction. PLEASE EDIT.

## II. RELATED WORKS

This is the related works section. PLEASE EDIT.

## III. SYSTEM OVERVIEW

This is the system overview section. PLEASE EDIT.

## IV. DESIGN AND DEVELOPMENT

This is the design and development section. PLEASE EDIT.

## V. RESULT AND DISCUSSION

This is the result and discussion section. PLEASE EDIT.

## VI. CONCLUSION

This is the conclusion section. PLEASE EDIT.

Naming

Figure - fig. 1

lable:

equation - eq:NAME

table - table:NAME

algorithm - alg:NAME

figure - fig:NAME

This is cite example. [1]

This is reference. sections IV and VI or I

Equation - eq. (1)

Table - table I

Algorithm - algorithm 1

Figure - ??

- Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as “3.5-inch disk drive”.
- Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.
- Do not mix complete spellings and abbreviations of units: “Wb/m<sup>2</sup>” or “webers per square meter”, not “webers/m<sup>2</sup>”. Spell out units when they appear in text: “. . . a few henries”, not “. . . a few H”.
- Use a zero before decimal points: “0.25”, not “.25”. Use “cm<sup>3</sup>”, not “cc”.)

$$a + b = \gamma \quad (1)$$

Use <https://www.latex-tables.com/> to create table

## REFERENCES

- [1] Consultative Committee for Space Data Systems (CCSDS), *Telemetry Channel Coding*, ser. Blue Book. Newport Beach, CA: CCSDS, 1999, no. 4. [Online]. Available: <http://www.ccsds.org/documents/pdf/CCSDS-101.0-B-4.pdf>

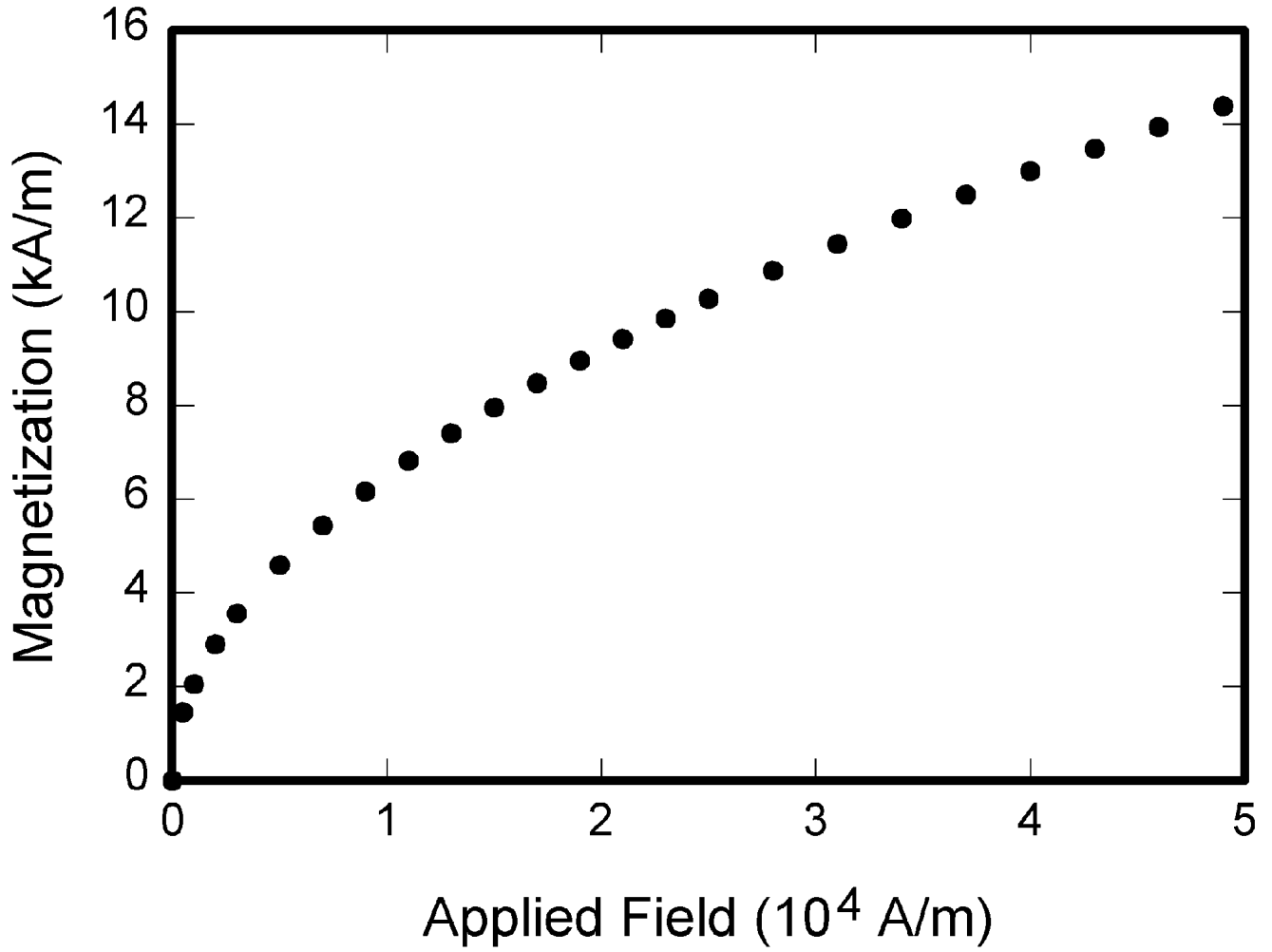


Fig. 1: Example of a figure caption. - TWO Column

TABLE I: Table Type Styles

| Table Head | Table Column Head            |         |         |
|------------|------------------------------|---------|---------|
|            | Table column subhead         | Subhead | Subhead |
| copy       | More table copy <sup>a</sup> |         |         |

<sup>a</sup>Sample of a Table footnote.

TABLE II: Model performance comparison

| Model       | Accuracy (%) | F1-score    |
|-------------|--------------|-------------|
| CNN         | 92.1         | 0.88        |
| Transformer | 95.3         | 0.91        |
| Ours        | <b>97.6</b>  | <b>0.94</b> |

TABLE III: Dataset statistics

| Category | Class  | Samples |
|----------|--------|---------|
| Animals  | Cats   | 500     |
|          | Dogs   | 600     |
| Vehicles | Cars   | 700     |
|          | Trucks | 400     |

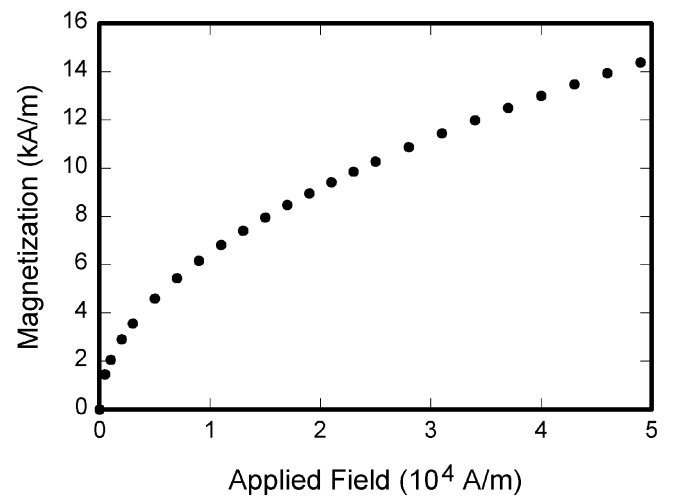


Fig. 2: Example of a figure caption. - ONE Column

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**Algorithm 1** Interactive Sinhala Question and Answer System

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**Require:** Sinhala question as voice input, object image

**Ensure:** Identified objects in the image with labels

```
1: repeat           ▶ Loop indefinitely until a break condition
2:    $image \leftarrow \text{CaptureImage}()$ 
3:    $detectedObjects \leftarrow \text{YOLODetection}(image)$ 
4:    $context \leftarrow \emptyset$            ▶ Initialize empty context list
5:   for all  $SinhalaLabel \in detectedObjects$  do
6:     if  $\text{ExistsInMongoDB}(SinhalaLabel)$  then
7:        $info \leftarrow \text{RetrieveSinhalaInfo}(label)$ 
8:        $context \leftarrow context \cup \{info\}$ 
9:     end if
10:  end for
11:   $voiceInput \leftarrow \text{GetUserVoiceInput}()$ 
12:   $question \leftarrow \text{GCPSpeechToTextAPI}(voiceInput)$ 
13:  if  $context \neq \emptyset$  then
14:     $model \leftarrow \text{LoadSinhalaBERT}()$ 
15:     $answer \leftarrow \text{GenerateSinhalaAnswer}(model, question, context)$ 
16:  else
17:     $answer \leftarrow \text{"No context found"}$ 
18:  end if
19:   $speech \leftarrow \text{GCPTTextToSpeechAPI}(answer)$ 
20:   $\text{OutputSpeechToSpeaker}(speech)$ 
21:  if  $\text{TerminationRequested}()$  then
22:    break
23:  end if
24: until termination condition is met
```

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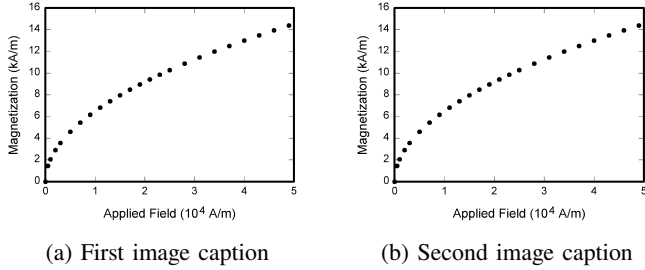


Fig. 3: Example of two subfigures in one figure.

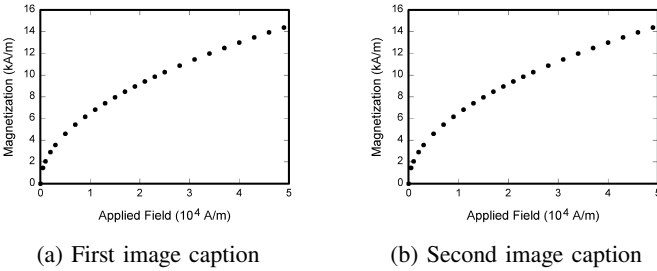


Fig. 4: Example of two subfigures in one figure.

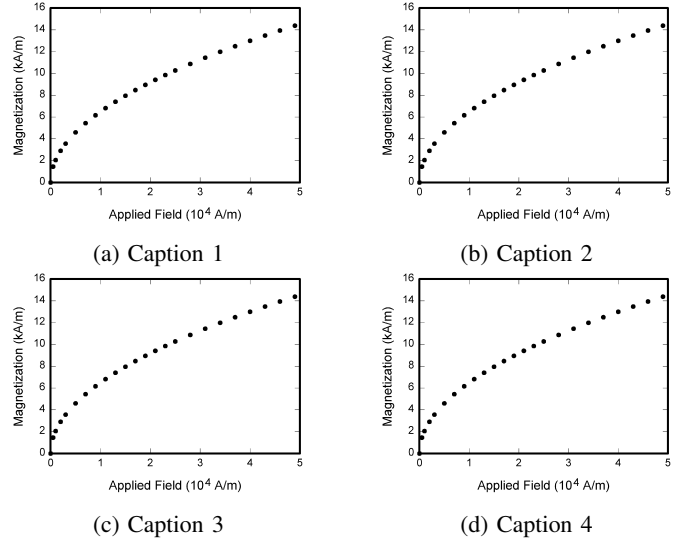


Fig. 5: 2×2 grid of subfigures using subcaption.