

Paper Title Goes Here

First A. Author, *Member, IEEE*, Second B. Author, and Third C. Author, *Fellow, IEEE*

Abstract—This document is a starting point for an IEEE Transactions on Medical Imaging (TMI) submission, using the official `ieeecolor/tmi` class files. Replace this abstract with a concise summary (150–250 words) of the problem, approach, and key results of the work. Do not cite references in the abstract.

Index Terms—keyword one, keyword two, keyword three, keyword four, keyword five

I. INTRODUCTION

THIS section introduces the problem, motivates why it matters, summarizes prior approaches and their limitations, and states the paper’s contributions as a short itemized list.

II. RELATED WORK

Summarize and position the work relative to the most relevant prior literature, organized by theme rather than chronologically [1].

III. METHODOLOGY

Describe the proposed method, model, or system. Use subsections to separate distinct components.

A. Problem Formulation

State assumptions and formal notation here. For example, a quantity of interest might be defined as

$$f(x) = \sum_{i=1}^N w_i \phi_i(x)$$

where ϕ_i are basis functions and w_i their weights.

B. Proposed Approach

Describe the core technical contribution here.

IV. EXPERIMENTS AND RESULTS

A. Dataset and Setup

Describe the dataset, evaluation protocol, and implementation details needed for reproducibility.

B. Results

Table I summarizes example results.

This paragraph of the first footnote will contain the date on which you submitted your paper for review. It will also contain support information, including sponsor and financial support acknowledgment. For example, “This work was supported in part by the U.S. Department of Commerce under Grant BS123456.”

First A. Author is with the Department of Electrical Engineering, University Name, City, Country (e-mail: first.author@example.com).

Second B. Author and Third C. Author are with the Department of Computer Science, University Name, City, Country.

TABLE I

EXAMPLE RESULTS TABLE

Method	Accuracy	Precision	Recall
Baseline	0.80	0.78	0.81
Proposed	0.90	0.89	0.91

V. CONCLUSION

Summarize findings, discuss limitations, and outline directions for future work.

REFERENCES

- [1] A. Author and B. Author, “An example paper title for the reference list,” *IEEE Transactions on Medical Imaging*, vol. 1, no. 1, pp. 1–10, 2024.