

Paper Title: A Comprehensive Study on Important Topics

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Abstract

This is a comprehensive placeholder for the abstract to demonstrate the layout. The abstract typically summarizes the background, methodology, results, and conclusions of the study.

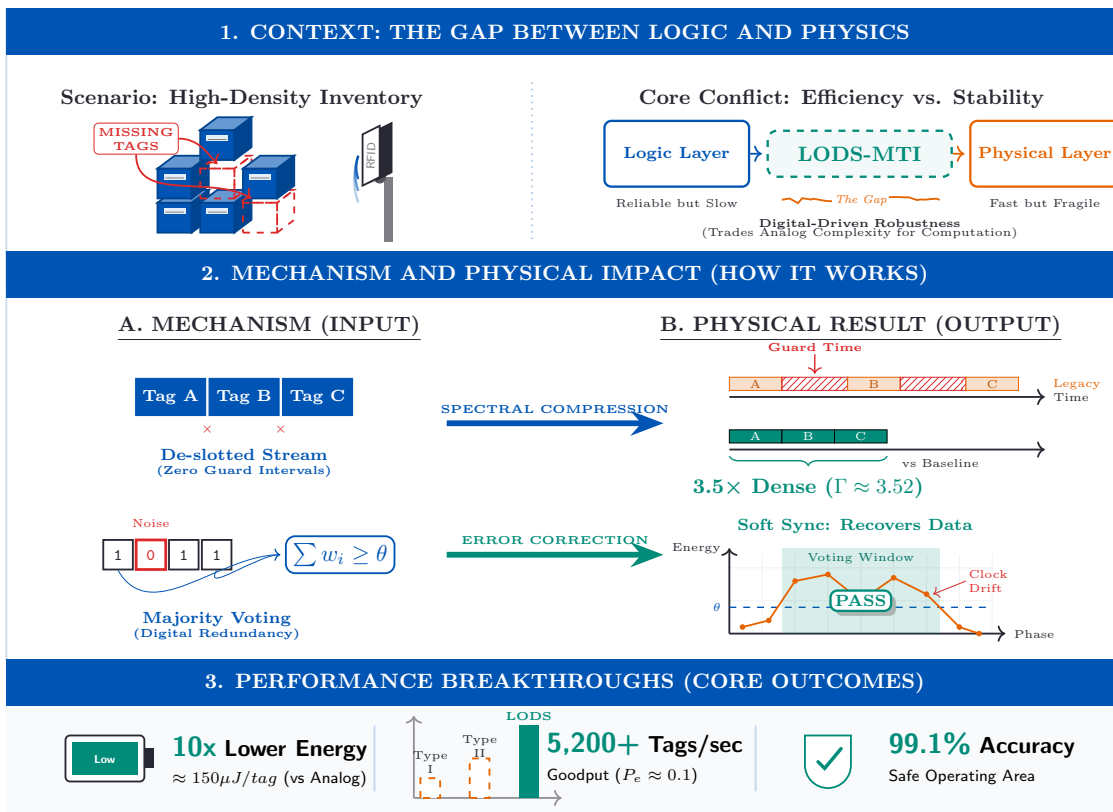
Missing Entity Identification is a crucial problem in large-scale RFID systems. We propose a novel protocol that leverages physical layer information and logical slotting to achieve high throughput. Our experimental results show a significant improvement over existing state-of-the-art solutions. Functional verification confirms the stability under various channel conditions.

Keywords: RFID, Missing Tag Identification, De-slotted Architecture, Perfect Hashing, Link-adaptive.

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Graphical Abstract: A visual summary of the main findings.

1. Introduction

Welcome to the **Rho Class Standardized Template**. This template is designed for academic preprints and articles, featuring a clean, professional "Academic Navy" theme. It is built on the 'extarticle' class and fully supports XeLaTeX compilation.

Quick Start Guide:

- Configuration:** Open 'Main.tex' and edit the metadata block (Title, Authors, Affiliations) at the top.
- Class Files:** The core logic resides in the 'class/' directory ('main.cls', 'sup.cls', 'cover.cls'). Do not modify these unless you need to change the global style.
- Compilation:** Use **XeLaTeX + Biber** (for bibliography) + **XeLaTeX** sequence.

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You can include a graphical abstract before the introduction using the 'command'.

```
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  \includegraphics[width=0.8\linewidth]{abstract.pdf}
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}
```

2.3. Citations and References

This template uses 'bibtex' with 'biber' backend.

- Add your references to 'ref.bib'.
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Table 1 demonstrates the default style.

Table 1. Example Table Style

Feature	Command	Note
Lead Author	\leadauthor	Header usage
Institution	\institution	Footer usage
License	\license	Bottom info

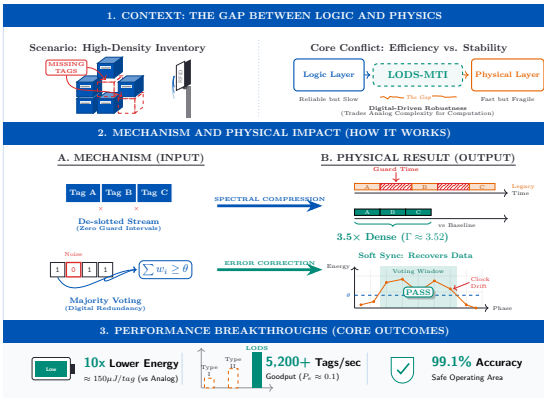


Figure 2. Example of a figure. Note that the caption is left-aligned and colored in Academic Navy.

3. Conclusion

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References

- [1] L. D. Xu, E. L. Xu, and L. Li, "Industry 4.0: State of the art and future trends", *International Journal of Production Research*, vol. 56, no. 8, pp. 2941–2962, 2018. DOI: [10.1080/00207543.2018.1444806](https://doi.org/10.1080/00207543.2018.1444806).
- [2] IEEE. "Techrxiv: Preprints for electrical engineering and computer science". (2024), [Online]. Available: <https://www.techrxiv.org> (visited on 03/20/2024).