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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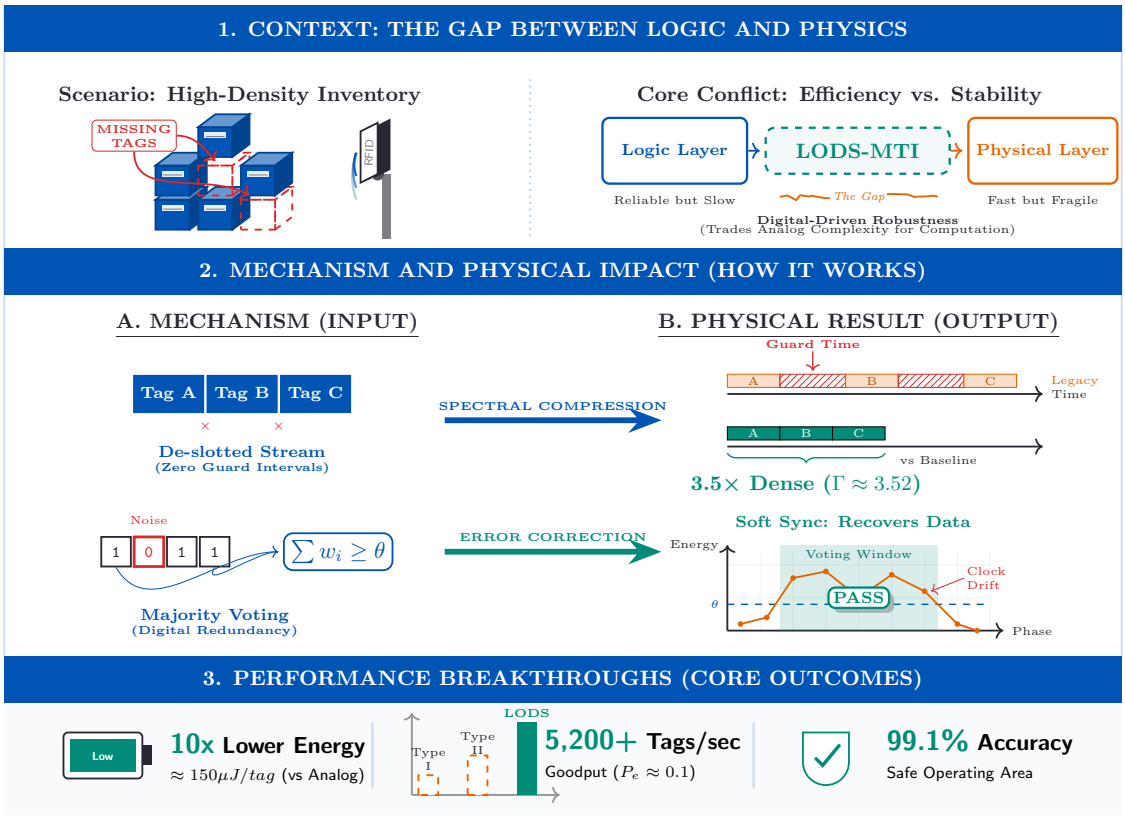

Graphical Abstract: A visual summary of the main findings.

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:

1. **Configuration**: Open ‘Main.tex‘ and edit the metadata block (Title, Authors, Affiliations) at the top.
2. **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.
3. **Compilation**: Use **XeLaTeX** + **Biber** (for bibliography) + **XeLaTeX** sequence.

2. Template Features

2.1. First Page Elements

- **Header**: Displays the Running Title (‘) and Lead Author (‘).
- **Footer**: Contains the Institution Name (‘), Preprint Version Date (automatically generated), and Page Number (e.g., "1-5").
- **Metadata**: The bottom rule contains the Correspondence (‘), License/Funding (‘), and Dates (‘). Ensure ‘‘ is set to enable this block.

2.2. Graphical Abstract

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

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

2.3. Citations and References

This template uses ‘biblatex‘ with ‘biber‘ backend.

- Add your references to ‘ref.bib‘.
- Cite them using ‘**key**‘, e.g., [1] or [2].

2.4. Figures and Tables

Figures should be placed in the ‘figures/‘ directory. Use standard LaTeX environments.

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

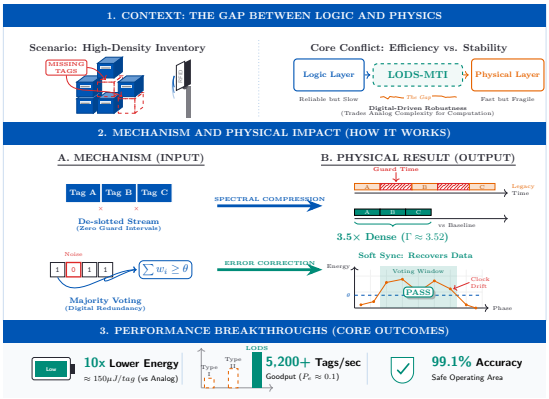

Figure 2. Example of a figure. Note that the caption is left-aligned and colored in Academic Navy.

3. Conclusion

This template aims to provide an "out-of-the-box" experience for professional academic writing. If you encounter missing footer information, please check that ‘‘ is present in your preamble.

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.

[2] IEEE. “Techrxiv: Preprints for electrical engineering and computer science”. (2024), [Online]. Available: https://www.techrxiv.org (visited on 03/20/2024).