

# DOCX-PDF Consistency Verification Test

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**Abstract**—This document verifies that both DOCX and PDF outputs are generated from the same unified HTML template, ensuring identical formatting, line breaks, spacing, and overall visual appearance. The unified HTML generation system creates a master template with precise CSS styling that matches IEEE LaTeX specifications, then converts this template to both formats using specialized converters. This approach eliminates discrepancies between DOCX and PDF outputs that would occur if different generation methods were used.

**Index Terms**—DOCX-PDF consistency, unified HTML generation, IEEE formatting, document generation, visual identity

## 1. UNIFIED HTML SYSTEM

## 2. CONSISTENCY BENEFITS

## 3. TECHNICAL IMPLEMENTATION

## REFERENCES

The unified HTML generation system ensures that both DOCX and PDF formats are created from the same master HTML template. This template includes precise CSS rules for typography, spacing, margins, and layout that match IEEE LaTeX output specifications exactly.

By using the same HTML template for both formats, we achieve perfect consistency in line breaks, text justification, paragraph spacing, figure placement, and overall document structure. This eliminates the need for users to choose between formats based on formatting quality.

The system uses a custom HTML-to-DOCX converter built with python-docx and BeautifulSoup for DOCX generation, and ReportLab for PDF generation. Both converters process the same master HTML template, ensuring identical visual output across formats.

[1] IEEE Standards Association. (2021). IEEE Editorial Style Manual for Authors. IEEE Press.

[2] Format-A Development Team. (2024). Unified HTML Generation System Documentation. Internal Technical Report.