Buenos Diaz, Dear colleagues!

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1. About my research team and me

- Western Europe, Ukraine
1. About my research team and me

- Ukraine, Zhytomyr

130 km from the capital
1. About my research team and me

Zhytomyr State University, Ukraine

http://zu.edu.ua/
2 The Short Paper outline

2.1 Introduction

Title: “Counter plagiarism detection software” and “Counter counter plagiarism detection” methods

What is “Counter plagiarism detection software”?  
The reason we started the research
2.1 Introduction

What is “Counter plagiarism detection software”?

What is “Counter plagiarism detection software”?

- "Counter plagiarism detection software" is software designed to detect instances of plagiarism in documents, typically by identifying sections that are copied from other sources. This software can be used by educators to ensure academic integrity and by businesses to protect intellectual property.

- A popular example of such software is AntiPlagiatKiller, which is designed to detect plagiarism in text documents. It works by comparing the input text against a database of known sources and identifying similarities.

- AntiPlagiatKiller is available for download, and it is reported to be effective in detecting plagiarism.

- The software is useful in educational and professional settings to ensure that work is original and not a copy of existing material.
2.1 Introduction

What is “Counter plagiarism detection software”?

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What is “Counter plagiarism detection software”?

- AntiPlagiatKiller
- Article Copy Master
- SEOAnchorGenerator
- AllSubmitter
- VeloSynonymizer 2.0
- MonkeyWrite
- RERAIT-PRO
- wordsyn
- Many others… google for: “article rewrite software SEO”
2.1 Introduction

What is “Counter plagiarism detection software”?
2.2 Main Ideas

Counter plagiarism detection methods examples:

- Cyrillic to English substitution
- White link-character insertion
- Synonymization and semantic shifting
- Text encoding manipulations
2.2 White link-character insertion

- I like bananas
- Ixlilikexxbananas
2.2 Cyrillic to English substitution

- Mother -> Mother

  English “о”-> Russian “о”
2.2 Synonymization and semantic shifting

- Substitutions not affecting semantic meaning – synonyms [close]
- Substitutions affecting semantic meaning - antonyms [close]
2.2 Synonymization and semantic shifting

World net as the source for experiments
2.2 Synonymmic obfuscation example:

- **Original**: This is a *bad* day!
- **Variant1**: This is a *tough* day!
- **Variant2**: This is a *horrid* day!
- etc.
2.2 Semantic Normalization

- **Base word:** bad
- **Normalization Set:** evil, immoral, wicked, corrupt, sinful, depraved, rotten, contaminated, spoiled, tainted, harmful, injurious, unfavorable, **tough**, inferior, imperfect, substandard, **horrid**, improper

- **Normalized:**
  - bad <- **tough**
  - bad <- **horrid**
2.2 Semantic Normalization at work

- Original: This is a **tough** day!
- Obfuscated: This is a **horrid** day!

What is indexed (normalized)?
- This is a **bad** day!

What is searched in the index (normalized)?
- This is a **bad** day!
2.3 Further investigation opportunities

- Effective word meaning sorting and selection development
- Practical effectiveness evaluation against the existing plagiarism detection methods
- Cross-language implementation
- Performance improvements
Thank you for the 300 seconds of your attention!