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METHODS OF DETERMINING THE INFLUENCE OF DISINFORMATION IN A MEDIA TEXT

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Abstract

It is important to identify disinformation and figure out the degree of its impact to effectively confront it. The aim of the article is to determine the impact of a misinforming media text applying a combination of methods. I calculate the number of occurrences of words, do the morphological analysis of words to build up a corpus of misinforming media texts. The pragmatic, frequency, and positional analyses reveal suggestion in media texts. The data revealed statistically corresponds to the positional distribution of repeated words and pragmatically significant lexemes. Positioned in a rhythmically structured media text, disinformation influences readers suggestively: it invokes negative public sentiments and eventually affects the public opinion. Due to deliberate misinformation in media texts, Russia appears to be an aggressor that hacks strategically important systems in order to undermine and disrupt them. A misinforming media text is used as the tool of information-psychological warfare. There are anonymous sources, generalizations, generic terms, and the repetition of pragmatically relevant lexemes among information warfare suggestive techniques.

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Keywords: Disinformation, media text, suggestion, pragmatically relevant lexeme, frequency distribution, rhythm.

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1. Introduction

Media contributes significantly to the strategic information warfare. People consume news published in

newspapers, TV, and social media. Information warfare uses a set of techniquessuch as suggestion and linguistic

manipulation. In this regard, a new research area has appeared in linguisticsin recent years. It is called the linguistics

of information-psychological warfare. This article focuses on the linguistictechniques which recipients have difficulty

to identify. The subject of the research is "the specificity of a language used as a means of information-psychological

warfare" (Bernatskaya et al., 2017, p. 16). One of the threats that information warfare poses is suggestive techniques

in a media text thatmay influence the public opinion dramatically. Most likely, the suggestive techniques will enhance

the impact of disinformation in a media text.

2. Problem Statement

I assume that a misinforming media text has characteristics of a suggestive text, thus it is easily perceived, and

it influences the reader's perception and opinion. Therefore, it is relevant to study disinformation as a means of

information-psychological warfare and determine the degree of its impact. To achieve this goal, the research applies

an integrated approach to the analysis of disinformation. It also includes statistical indicators for the formation of more

objective conclusions.

The article focuses on the analysis of media texts that are posted on the Internet. These media textsare

periodically published on the website of one of the leading daily American newspapers The Washington Post(The

Washington Post, n.d.). High-quality media is considered a reliable source of information, thus the research of 47

media textsof The Washington Postis relevant.

The media sometimes publishes unverified information or disinformation. To determine disinformation and

suggestive techniques in media texts, Ifirst studied the reviews made by expertsand journalists in different countries

who identify misleading texts, propaganda and fake news. The results of the examinations are open and available on

the websites of disinformation cases databases (EU vs Disinfo, n.d.), (Fakecheck, n.d.), (Fact Check.org, n.d.), (Snopes,

n.d.). Second, Ianalysed media textfrom pragmatic, statistical and structural perspective to measure the impact of

misinforming texts on public opinion.

3. Research Questions

To carry out a pragmatic analysis of misinforming texts on cyberattacks, I selected media texts which state that

hackers are aligned with Russia or that Russia conducts cyberattacks on election, power grids, and other systems.

The first step is to identify disinformation. What are the markers of disinformation? One of them is the

manipulation of facts. For instance, the headline of one of the media texts states, Russia has developed a cyberweapon

that can disrupt the operation of the electric power system, as argued in a new study(Nakashima, 2017, June 12).

However, Russia has not been mentioned in the cited study which analysed a malware that has the potential to disrupt

power system.

Second, if a media text is posted online, it can be edited any time without readers noticing it. Writers have an

opportunity to include links to texts relevant to subject matter. How does a misinforming media text affect public

opinion? The links create hypertext and filter bubbles that help readers to form an opinion about matters discussed in

a media text. For example, the article Russian government hackers penetrated DNC, stole opposition research on

526

Trump(Nakashima, 2016, June 14) includes four links to texts of a similar topic and two links to texts of a different

issue. I conclude that hypertext may create a negative image of Russiabecause all texts contain information

discrediting Russia.

4. Purpose of the Study

The purpose of this article is to determine the impact of misinforming media textsconducting pragmatic,

statistical, and positional analyses. These methods help to identify similarities between media texts and suggestive

texts and to identify whether the same techniques are used.

5. Research Methods

To effectively confront disinformation, it is necessary to identify it and figure out to what extent it impacts

readers. Icarry out analyses to determine the impact of disinformation based on statistical data and structural

peculiarities of a media text.

For this research, I used the method of calculating the frequency of linguistic units in media texts to determine

the number of occurrences of linguistic phenomena"in the observed segment of reality" (Golovin, 1971, p. 21). The

procedure implies the continuous sampling of several homogeneous texts or several homogeneous samples.

Homogeneity can be determined intuitively. One of the conditions is texts should contain the same number of

linguistic units. For the samples to be representative, it is necessary to have a word (as a chain of phonemes and

morphemes) as the smallest unit to conduct the research because a word is recognized by researchers as the basic

elementary unit, the minimal textual component that is isomorphic to a text.

The frequency analysis shows that the data revealed corresponds to the results of the analysis of positional

distribution of repeated words and pragmatically significant lexemes(Moskal'chuk, 2003; Moiseeva, 2007). Within

the framework of this research of information warfare, pragmatically significant (or relevant) lexemes are of complete

or incomplete repetition that reduces the informativeness of a text as repeated words do not transmit new information.

These lexemes are often included in a misinforming context, they have rather negative than neutral connotation, these

words express more general concepts, and belong to thematic groups related to the target of information warfare.

The method of positional analysis determines the way pragmatically significant lexemes and repeated wordsare

distributedina textto formits structure. The rhythmic structure influences the perception and creates the effect of

suggestion.

6. Findings

The analysis has shown that only 10% of the analysed media texts can be considered misinforming.

Misinforming texts have few characteristics inherent in disinformation. The misinforming context is created by

pragmatically meaningful repetitive units that alternate with information-intensive parts of a text. I have found out

that misinforming media texts contain:

• references to anonymous authoritative sources (usually the sources are not stated), for example, according to

new research, in a secret assessment, U.S. government officials;

• generalization which is marked by such words as *some*, *nation*;

527

• generic concepts instead of specific names: individuals with connections to the Russian government,

cyberweapon, malware;

• means of expression and emotionally marked words which create the dramatic effect: a cyberweapon that

can disrupt power grids, to undermine confidence in the U.S. electoral system.

The Internet environment makes a media text easier in form and more accessible to perception, it also increases

the speed of information dissemination through reposts (posting links to a media textor submitting content that has

already been posted on social networks) and comments (on average there are 800 commentsto a media text). If these

media texts contain disinformation, then they become a weapon of information-psychological warfare.

After I compared the media texts and the results of verbal impact with findings of suggestive texts studies

by Leontiev (1972), Boltaeva (2003), Goncharov (2006), Medvedeva (2008), Shelestyuk (2014), I conclude that 75 % of the properties of th

media texts use suggestive techniques. The most frequent is a latent verbal speech influence which is created by

rhythm. The repetition of pragmatically relevant words contributes to a better perception of a text. The repetition of

pragmatically significant lexemes in a misinforming media texts has negative impact, suggesting false ideas and

rooting a contradictory image. One of the media texts states, Russia intervened in the 2016 election to help Donald

 $Trump\ win\ the\ presidency,\ rather\ than\ just\ to\ undermine\ confidence\ in\ the\ U.S.\ electoral\ system (Entous,\ Nakashima,$

Miller, 2016, December 9). This statement is rephrased six times. The total number of comments to this article is

28048. About 30% of comments include pragmatically significant words and negative views of Russia.

After I conducted frequency analysis of media texts about Russia and cyberattacks, I found out that

morphological characteristics of words indicate that the type of these texts is description. There are nouns (common

and proper) and adjectives in comparative and superlative forms. The analysis of repetitions and pragmatically

relevant wordsshows that the media textsare replete with proper names, mostly anthroponyms: the names of malwares

(CrashOverride, Electrum, Sandworm, Stuxnet) and the names of authoritative experts: the director of the US National

Intelligence James Clapper, Assistant to the President for Homeland Security and Counterterrorism Lisa Monaco.

Ipresume that nominal style allows controlling the text perception because ideas and events are presented as complete

and/orunchangeable, for example, Russian government hackers have shown their interest in targeting U.S. energy

and other utility systems, researchers said.

There are also elements of reasoning in the analysed texts, as modal verbs can, may denoting the probability,

conjunctive adverbs, also, instead that can indeed function as simple adverbs, and generalizations as overall indicate.

7. Conclusion

After comparing statistical data and the structure of media texts with their content, I conclude that misinforming

media texts include create the suggestive effect by rhythm which is the repetition of pragmatically significant words

that alternate with information-intensive parts. The suggestive techniques are beneficial for the actor(s) of

information-psychological warfareas well as the linguistic manipulation which includes the repetition of

pragmatically relevant lexemes, generalizations, generic terms, and references to anonymous sources. Being posted

online, media texts become elements of a thematically homogeneous hypertext which maycreate the impression of

development or course of events. The filter bubble in which the recipient eventually occurs affects the perception and

opinion significantly.

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528

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