

Zgłoszenie tematu **INŻYNIERSKIEJ** pracy dyplomowej**STUDIA I STOPNIA** rok akademicki 2021/22

Promotor:	dr hab. Jozef Kapusta, prof. UP
Temat pracy dyplomowej (j. polski, j. angielski):	Improving the Fake News Classification using Synsets from WordNet <i>Poprawa klasyfikacji fałszywych wiadomości za pomocą Synsets z WordNet</i>
Zakres pracy i oczekiwane rezultaty praktyczne:	The amount of fake news, which purposely try to manipulate the people's opinion, is exponentially increasing. The availability of the information channels, which allow creating and broadcasting fake news easily, it is often considered the most important cause of this phenomenon. Therefore, fake news detection has recently attracted growing interest from the general public and researchers. Given the massive amount of Web content, automatic fake news detection is a practical natural language processing problem. For natural language processing area si very useful WordNet. It is the lexical database witch contain sets of a synset. Synset is a special kind of a simple interface that is present to look up words in WordNet. Synset instances are the groupings of synonymous words that express the same concept. The aim of the thesis is to the research uses synset for improving fake news classification. The typical words and documents representation by TF-IDF vectors will change to synset representation. The main idea is solving the problem with synonymous words for TF-IDF representation.
Aspekt inżynierski*:	Selection and implementation of natural language processing methods, modify methods for specifics problem, implementation the methods for WordNet processing.
Wymagane oprogramowanie/języki programowania**:	Jupyter Notebook (Python)
Środowisko uruchomieniowe**:	
Dodatkowe wymagania i uwagi:	English Language
Literatura**:	<ol style="list-style-type: none"> 1. Steven Bird, Ewan Klein, and Edward Loper: Natural Language Processing with Python - Analyzing Text with the Natural Language Toolkit. O'Reilly Media, 2009. 2. Benjamin Bengfort, Tony Ojeda, Rebecca Bilbro: Applied Text Analysis with Python: Enabling Language - Aware Data Products with Machine Learning, O'Reilly Media, 2018, 332 p. 3. Natural Language Toolkit, online: https://www.nltk.org/. 4. Wordnet with NLTK, online: https://pythonprogramming.net/wordnet-nltk-tutorial/

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***należy uzasadnić/wskazać, czy praca spełnia wymagania inżynierskie**

****pola opcjonalne**