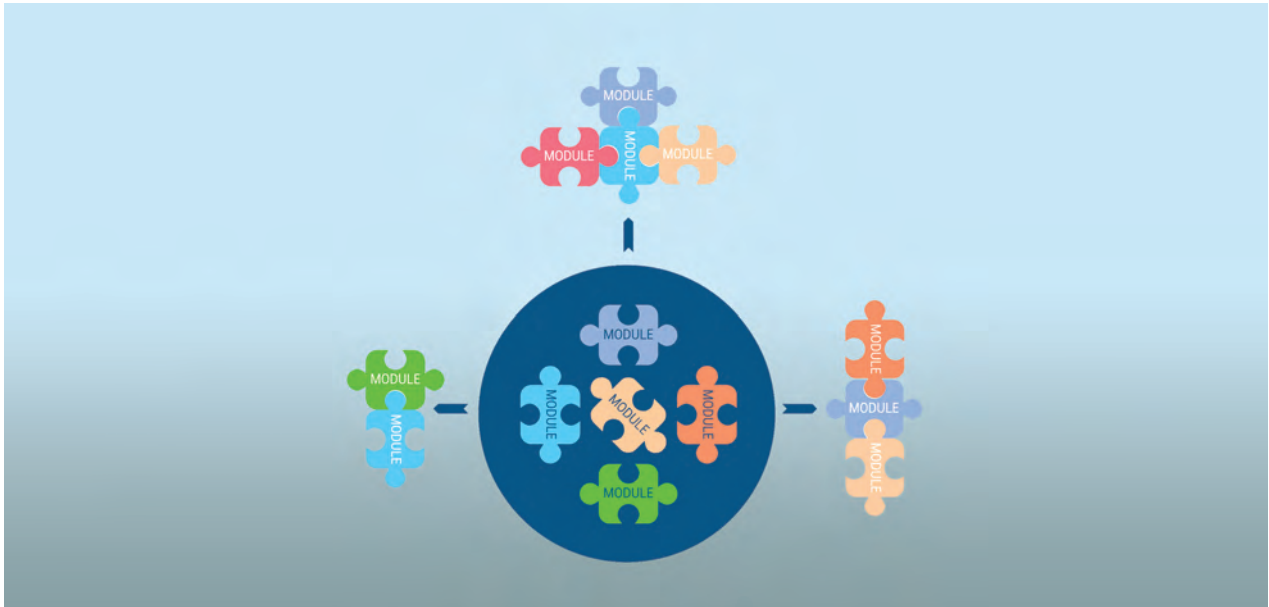


NATURAL LANGUAGE PROCESSING TECHNOLOGY BASED ON SEMANTIC INTERPRETATION OF TEXTUAL INFORMATION



Areas of Application

The technology is designed for a variety of NLP systems and is oriented to semantic processing and interpretation

Specification

The technology is represented as a set of algorithms implemented as libraries and lexical-semantic database UkrWordNet. The existing algorithms enable implementing such systems as classification, clustering, summarization, authorship attribution, sentiment analysis, translation improvement and more. The system requirements: OS Windows XP or higher

Advantages

As compared with similar technologies, the implemented NLP algorithms are primarily based on usage of lexical-semantic database and dictionaries with minimal involvement of syntactic processing. The technology supports processing of English, Ukrainian, and Russian texts. The Ukrainian component of UkrWordNet database is unique and contains over 130.000 definitions

IPR Protection

IPR1, IPR3

Stage of Development. Suggestions for Commercialization

IRL3, TRL5
The use of this technology by NLP system developers will increase demand for Ukrainian linguistic toolkits

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