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The European Union (hereinafter “the Licensor”) is the owner of the copyright and other intellectual and industrial property rights, trade secrets, and know-how related to the software JRC-Eurovoc-Indexer (JEX), over which is has the power of disposal regardless geographical or other limitations.

JEX is a software product of the Joint Research Centre of the European Commission which automatically assigns a ranked lists of descriptors (classes) from the Eurovoc thesaurus (http://eurovoc.europa.eu/) to a written plain-text input file. The tool can train itself on document collections to which descriptors have previously been manually assigned. The JRC has trained the tool on the 23 official EU languages, but it can in principle be trained for many more languages if manually indexed document collections are available, and it can be trained for descriptors of thesauri other than Eurovoc. The main parts of the tool are the indexing component and a self-learning component, but it also includes a pre-processing and a post-processing component, as well as an interactive user interface that allows users to manually view and correct the automatic assignment.

The main purpose of the software is to complement or replace the human intellectual indexing process of classifying documents according to the Eurovoc thesaurus. However, due to the nature of the multilingual Eurovoc thesaurus (each subject domain class is represented by a language-independent numerical identifier), the software can also serve to represent texts in a language-independent way in order to allow the comparison of documents across languages.

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8. Applicable Law and Legal Venue

1. This licence shall be governed by the law of the European Union and, where necessary, by the substantive law of Belgium.

2. In case of any dispute or difference between the Parties arising out of or in connection with this licence, the Parties shall settle it by mutual agreement. Such effort shall be deemed to have failed when one of the Parties so notifies the other in writing. In that case, each Party may initiate proceedings before the General Court of the European Union in Luxembourg.
ANNEX A - TECHNICAL SPECIFICATIONS OF THE SOFTWARE

Version: 1.0

Language: The resource and software are not limited to any specific natural language. It is inherently multilingual. The software has been pre-trained for the 23 official languages of the European Union. The trained software is distributed separately for each of the languages so that users can use the software for one or more languages of their choice. The documentation is written in English.

Components: The software consists of six components: an interactive graphical user interface (GUI); a pre-processing tool that can help to convert certain input text files to the format needed by the main indexing component; the main indexing component, which assigns a ranked list of Eurovoc descriptors; a post-processing component, which may enrich the output of the main component with additional information from the Eurovoc thesaurus, as well as with meta-information from the indexing process; a training component, which can be used to train the classification software with user-provided manually indexed documents; and a component to test the result of the automatic training. The software is accompanied by numerous configuration files, by a copy of the Eurovoc thesaurus, and by collections of manually Eurovoc-indexed training documents in the software-specific ‘compact format’.

Functionalities: The indexing software can take plain-text files as input and assign ranked lists of Eurovoc descriptors to each of these texts. The graphical user interface allows to view the assignment results of the indexing step, including high-lighting the words that caused the software to assign individual descriptors. The GUI furthermore allows to manually moderate the results, by deleting automatically assigned descriptors, by searching the Eurovoc thesaurus for other descriptors and by adding them to the list of assigned descriptors. Finally, it allows to save the results in XML format. The training software allows to learn new classifiers by analysing user-provided, manually indexed document collections and thus to improve the indexing result by providing more and better training collections. Also, it allows to re-train the software with different - and possibly better - parameter settings. The pre-processing component can optionally be used to convert the input files into the format needed by the main indexing component. The post-processing component can optionally be used to enrich the output of the main indexing component with additional information about the Eurovoc thesaurus and about the indexing process. The training component can re-train the software with user-provided thesaurus-indexed documents.

Documentation: The software is accompanied by documentation in HTML and in PDF format. Additional scientific-technical details regarding the indexing algorithm and the evaluation of the software are available in the publication shown below:
