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ABCVAnalyzer

Technical documentation

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# General Information

## System overview

*Anti-social Behavior, Conflict and Violence Analyzer* (ABCV Analyzer) is an ontology-based information extraction, analysis and visualization system for detecting topics in texts that are ralted to various forms of anti-social behavior.

## More information

The architecture and the libraries used by the system are described in the paper:

## Contact Information

For additional information, please, contact dr. Tuomo Kakkonen ([tkakkone@cs.joensuu.fi](mailto:tkakkone@cs.joensuu.fi)).

# Installation and Running

## Required software

In order to run the system, you need to have the following software installed on your computer:

* GATE and its libraries need to be in the same Eclipse workspace (<http://gate.ac.uk/>)

## Installing the system

Unzip the archive into the directory you choose to install the system or download it from the cvs.

## Running the system

In order to run the system from Eclipse, set the VM arguments as follows:

-Xmx500m -Dgate.plugins.home="C:\Documents and Settings\tkakkone.CSLAP93\Desktop\My   
docs\Työ\Projects\eclipse\_TM\GATE\plugins" -Dgate.site.config="C:\Documents and   
Settings\tkakkone.CSLAP93\Desktop\My docs\Työ\Projects\eclipse\_TM\GATE\gate.xml"

where the first argument defines the Java heap size, and the two following ones, the location of GATE plugins and the GATE xml setup file, respectively.

If you want to run sentiment analysis using an existing JitterOnto, run the *MineGothicNovels* class. The input files are defined in the *main* method. The system expects to find the ontology file *emotions.rdf* from the root folder of the project.

If you want to create a new instantiation of the JitterOnto ontology, run the class *WNAffectHierachy*. The input hierarchy and synsets are defined in the *main* method. The ontology file *emotions.rdf* is written into the root folder of the project.