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JittersMeter

User’s Guide

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# General Information

## System overview

JittersMeter is a system for creating and visualizing emotion profiles that are easy to compare. The system is developed by the educational technology research group, edTechDelta, at the University of Eastern Finland.

JittersMeter generates visual representations of negative affective content of texts and uses techniques to outline the differences and similarities between the pairs of texts under scrutiny. The design of the tool is centered on the idea of *sentiment profiles*, hierarchical representations of affective contents of

the input documents. The sentiment profiles and the visual graphs representing them that the system

generates are in effect summaries of the sentiment content of the input documents. The system makes use of various freely available NLP and visualization resources and tools in tandem with Semantic Web

technologies.

## More information

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

Kakkonen, T., Galić Kakkonen, G.: JittersMeter: Creating Comparable Visual Profiles of Negative

Sentimental Content in Texts.

## 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.