

# Stellingen

Propositions belonging to the thesis

## **Using natural language processing to improve biomedical concept normalization and relation mining**

1. A simple ensemble-based approach allows the balancing of precision versus recall of the combined system. (Chapter 1)
2. A silver standard corpus can be a viable alternative for or a supplement to a gold standard corpus when training chunkers in a biomedical domain. (Chapter 3)
3. A combination of existing systems for recognizing medical concepts in clinical records provides substantially better results than any of the individual systems. (Chapter 4)
4. Usage of natural language processing techniques gives a large increase in the performance of dictionary-based concept identification systems. (Chapter 5)
5. A knowledge-based approach can be used to extract drug adverse events from biomedical text without need for a large training set. (Chapter 6)
6. Perfect software does not exist.
7. The number of published papers is one of the most important measures to evaluate the performance of a scientific researcher.
8. All photos are accurate. None of them is the truth. (Richard Avedon)
9. To become a better piano player, there are three important things to do: practice, practice, and practice.
10. By using an advanced machine learning algorithm, it is possible to predict stock prices.
11. 风来疏竹，风过而竹不留声；雁度寒潭，雁去而潭不留影。故君子事来而心始现，事去而心随空。(洪自诚《菜根谭》)

The bamboos after a breeze remain silent. A pond has no trace of the goose already flown off. A gentleman would take care of matter as it comes and let go when it is done. (Hong Zicheng, <Cai gen tan>, Period of Ming dynasty (1368-1644))

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