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Universiteit Leiden



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Title: Hybrid similarities : a method to insert relational information into existing data mining tools

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Stellingen

behorende bij het proefschrift

Hybrid Similarities

a method to insert relational information into existing data mining tools

van

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1. A method that can combine both content-based and relational information can get to better results than a method that uses only the content-based information. [this thesis]
2. It is better to try to combine different types of information into a similarity measure that can be used by an existing data mining tool, then to create new data mining tools for every different combination of data types. [this thesis]
3. When the data mining tool makes it impossible to adjust the similarity measure in a straightforward manner, an alternative can be to adjust the content of the elements so that the relational information is inserted indirectly. [this thesis]
4. In an annotated graph, homophily can be used to make a data mining tool more robust to the existence of content variability. [this thesis]
5. There are many ways to combine the similarities between two vertices and their neighbors into a single similarity for these two vertices. Each of them can lead to better results. [this thesis]
6. The computer science community should spend much more time on obtaining suitable data sets for researching data mining.
7. In the majority of situations where data mining is used in practice, the outcome of the data mining tool should be used as a suggestion in what direction research on that dataset should be conducted, not as a result on its own.
8. Data mining algorithms that use the properties of a metric to improve their speed are often too frail to use in practice.
9. The difference in behavior of users of social networks makes it impractical to use them as a source for data mining.
10. Parliament elections that also decide who will be in the government and who will become the prime minister, most of the time are not about who will be in parliament.
11. The free market is a utopia, just like communism.
12. Soon, very soon, Feyenoord will be champion of the Eredivisie again.