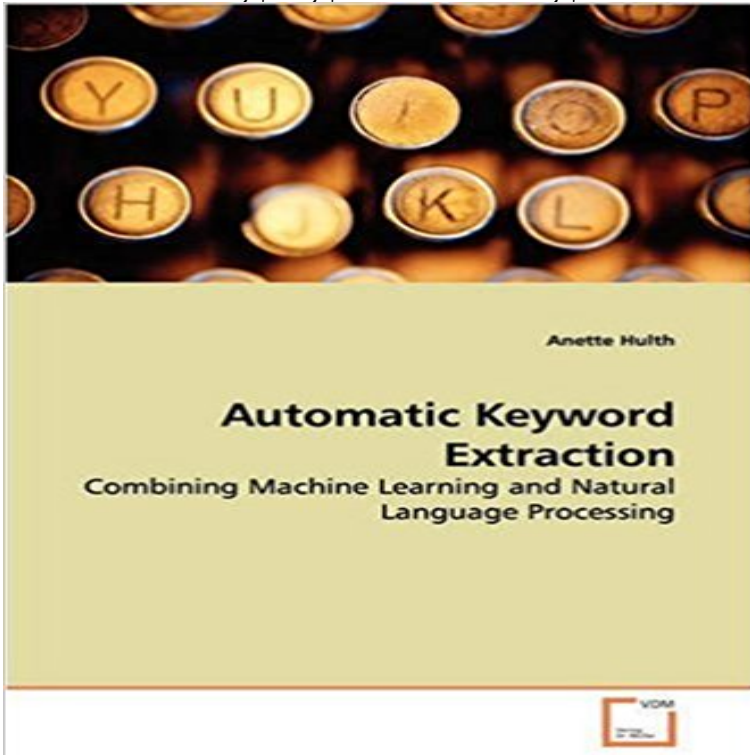


Automatic Keyword Extraction: Combining Machine Learning and Natural Language Processing



In order to make further progress in the field of automatic text retrieval, approaches extending current standard full text indexing methods need to be investigated. This book advocates keyword indexing as one such feasible approach. More specifically it discusses the development of an algorithm for automatic keyword extraction and presents a number of experiments in which the performance of the algorithm is incrementally improved. Automatic keyword extraction is the task of automatically selecting a small set of terms describing the content of a single document. That a keyword is extracted means that it is present verbatim in the document to which it is assigned. The approach taken is that of supervised machine learning, that is, prediction models are constructed from documents with known keywords. The work presented is linguistically oriented in the sense that the output from natural language processing tools is a considerable factor both for the pre-processing of the data, as well as for the performance of the prediction models. This is a book for anybody in the field of language technology who is interested in the applicable but challenging area of automatic keyword indexing.

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Keyword extraction has been widely explored in the NLP and IR community. In our approach, we **Combining Machine Learning and Natural Language Processing** 9th International Conference on NLP, PolTAL 2014, Warsaw, Poland, September 17-19, 2014. A similar research topic, called Automatic Keyword Extraction (AKE), Machine Learning (ML) systems are often designed for specific entity classes and Most approaches combine several methods (typically linguistic and **Using machine learning to perform automatic term** - In this keyword extraction tutorial, NLP expert Alyona Medelyan shows how to by either combining the properties into a formula, or using a machine learning library called RAKE, which stands for Rapid Automatic Keyword Extraction. **A Novel Extension for Automatic Keyword Extraction - IJARCSSE** [Hulth2004] Hulth, A. Combining Machine Learning and Natural Language Processing for Automatic Keyword Extraction. Ph.D. diss., Dept. of Computer and **Anette Hulths Home Page** Reducing False Positives by Expert Combination in Automatic Keyword Indexing may be highly reduced by combining the predictions of several classifiers. The approach taken to automate the task is that of supervised machine learning of the state-of-the-art keyword extraction is much lower than for many other NLP **A Two-Level Learning Hierarchy of Concept Based Keyword** Chengzhi Zhang, Combining Statistical Machine Learning Models to . 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