

The anatomy of a FCA-based web clustering engine for desktop and mobile search

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Abstract. Clustering engines have become a popular refinement of plain search engines and CREDO (<http://credo.fub.it>) is a well known example of using concept lattices for supporting post-clustering of retrieval results. In this talk I will report on the experience of CREDO, discussing the main issues involved in the construction of a FCA-based Web clustering engine and how it compares to alternative approaches. Then I will describe a recent extension of CREDO to the fast-growing market of mobile search. The system, termed Credino (<http://credino.dimi.uniud.it>), is probably the first mobile clustering engine available for testing on the Internet. I will argue that the search potentials of clustering engines are even more attractive for small mobile devices than for desktop computers, and present some experimental results that support this view. Finally, I will discuss some research directions and strategies to improve the retrieval performance of web clustering engines, including those based on concept lattices.