

The Flamingo Software Package on Approximate String Queries*

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Abstract. An important operation in data cleaning is similarity search on textual strings. A simple example is “finding actor names similar to *schwarzeneger*,” given the fact that few people know the exact spelling of our former governor in California. It is challenging to support this operation efficiently on large amounts of data. Despite its importance, the problem did not receive enough attention in the research community a decade ago. In this talk, I will give an overview of recent results on this problem, and describe the development history of the Flamingo package, an open-source software that supports efficient approximate string queries. I will also describe my outreach activities to apply our research results of data cleaning in real applications, which led to a startup called Bimable that specializes in powerful instant search on large data sets.

Keywords: Data Cleaning, Flamingo Package, Approximate String Search.

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