

Towards Discovery of Hidden Adversarial Networks in Large Database Graphs

by

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ABSTRACT

This thesis describes the framework of a comprehensive system for locating hidden adversarial networks within a large database, based on partial information. Currently, no systematic methods have been developed for the problem of discovering potential matches to fragments in this situation specifically. We present two distinct algorithms, each with their own advantages and disadvantages. The algorithms are presented in three steps: first an indexing step which can be performed offline and infrequently, second a search step which is performed at runtime, and finally a scoring step to return the best results to the user. Our system is shown to work very well for certain graph structures.