

Oberseminar Theoretische Informatik
Sommersemester 2010

Christian Komusiewicz

An Iterative Matching Algorithm for Bounded-List Network Querying

Mo. 07.06.2010 um 14:00 (c.t.) im Seminarraum 3319 (Ernst-Abbe-Platz 2,
3. Stock).

Given two protein-interaction networks G (the query) and H (the host), the network querying problem asks for a subnetwork of H that is similar to G . We present an exact matching algorithm for the querying problem, when for each protein in G the number of proteins in H it can be matched to is upper-bounded. We show that our algorithm improves in theory and in practice on a known search tree algorithm for this problem. We also apply our algorithm to obtain the currently fastest algorithm for the MAXIMUM COMMON SUBGRAPH problem.

Homepage:

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