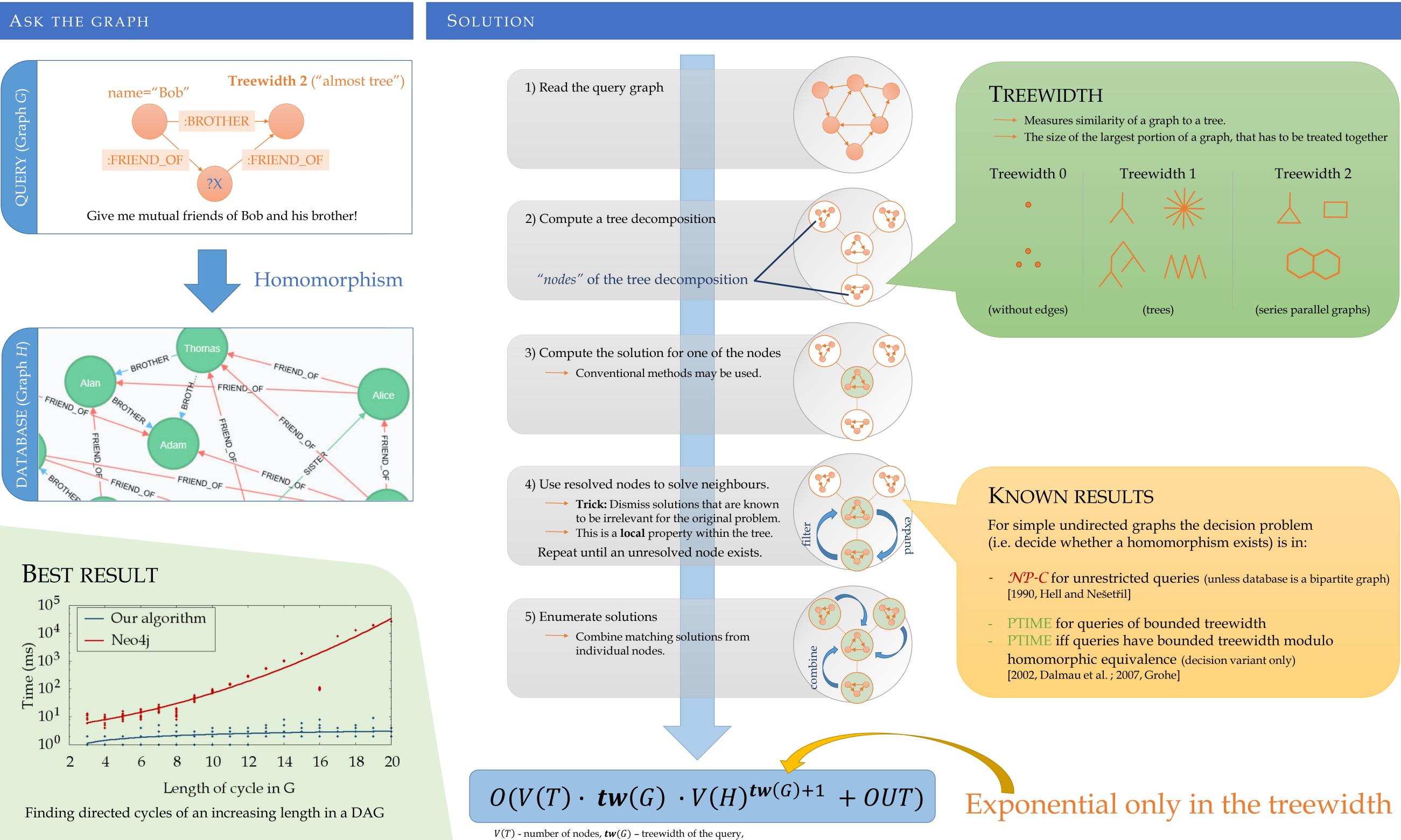
GRAPH DATABASE QUERY ENGINE BASED ON TREE DECOMPOSITIONS

Graph databases are a promising branch of storage systems. We have proposed a new algorithm for querying such databases with the aim to ensure the best possible worst-case time complexity. Our approach is based on the recent results from the field of graph homomorphism and uses them in the context of graph databases. By a series of experiments we have shown that our algorithm is faster than the leading graph database Neo4j in some of the scenarios.



V(H) - number of vertices in the database, OUT - number of results