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Parallel and Continuous Join Processing for Data Stream

Thèse pour l'obtention du grade de Docteur

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Part I: Data Driven Stream Join (kNN)



Outline

- Related Work
- Parallel Workflow
- Theoretical Analysis
- Continuous kNN
- Experiment Result
- Conclusion

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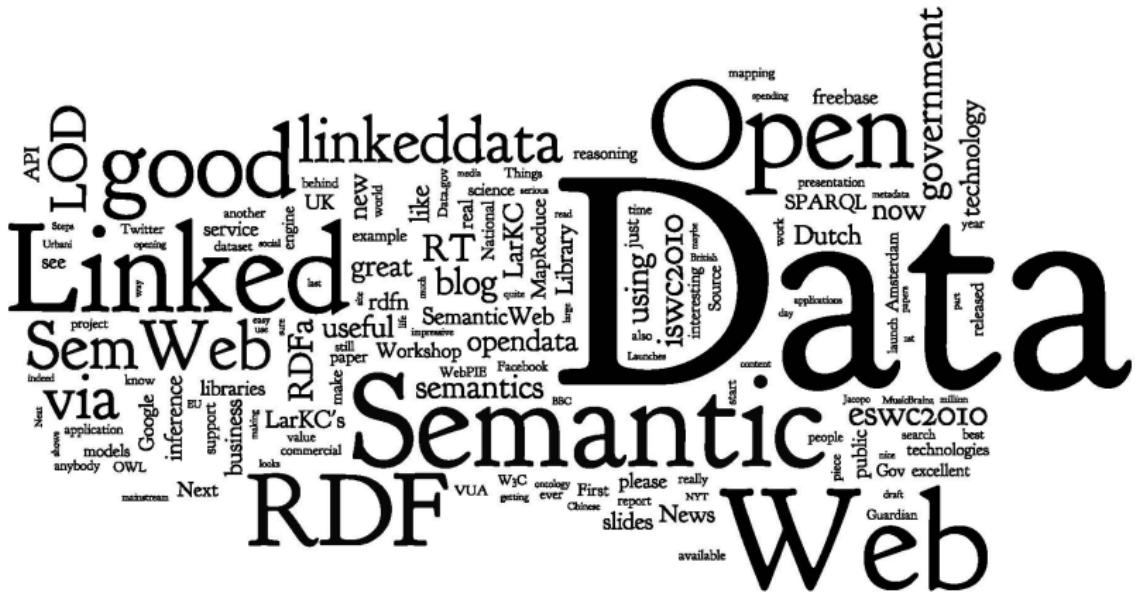
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Definition: kNN

Given a set of query points R and a set of reference points S , a k **nearest neighbor join** is an operation which, for each point in R , discovers the k nearest neighbors in S .

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Part II: Query Driven Stream Join (RDF)



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- Query Decomposition and Distribution
- Data Partition and Assignment
- Parallel and Distributed Query Plan
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Thank You!