Manage the Data from Indoor Spaces: Models, Indexes & Query Processing

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Overview

About This Work...

A Foundation for Efficient Indoor Distance-Aware Query Processing. [4]
H. Lu, X. Cao, and C. S. Jensen.

- Published at *ICDE' 2012*.
- First time to propose a distance-aware indoor space model that integrates indoor distance seamlessly.
- Accompanying, efficient algorithms for computing indoor distances.
- Indexing framework that accommodates indoor distances.

Motivation

- A variety of LBS services are useful in indoor space.
  - a museum guidance service in a complex exhibition
  - boarding reminder service in an airport, to remind the passengers especially those far away from their gates or departures
- Such indoor LBSs will benefit from the availability of accurate indoor distances.
  - indoor space entities enable as well as constrain indoor movement, thus makes traditional space model for Euclidean/spatial network spaces unsuitable.
  - existing indoor space models [7, 8, 9] pay little attention to indoor distances.

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The End. Thanks :)