NoSQL Now! Conference features AllegroGraph's GeoTemporal Reasoning Capabilities

OAKLAND, Calif. – July 9, 2013 – Franz Inc.'s CEO, Dr. Jans Aasman, will present at the 2013 NoSQL Now! Conference this August in San Jose, CA. The third annual NoSQL Now! Conference is the largest vendor-neutral forum focused on NoSQL (Not Only SQL) technologies. The conference is intended for every enterprise looking for better, faster and cheaper solutions to manage its growing databases and data stores.

Tracking Moving Objects in a Graph Database

Technology in our phones and cars have shaped consumers into profitable moving objects of interest. Knowing where an object is at any point in time will increase our ability to accurately predict that object's behavior. Tracking moving objects is an obvious application of massively scaling NOSQL technologies and in this presentation we will argue that graph databases are particularly well suited. Graph search can show us interesting connections in our social networks and the addition of location and time allows us to reason about the when and where and help us predict future behavior.

In this presentation we discuss a query framework that can combine geospatial, temporal and social network analysis. In addition, we will discuss recent NoSQL technologies that allow finding objects within a certain geospatial and temporal bounding box with a minimum amount of joins and disk access.

We will discuss increasingly complex queries over moving objects (MOB) in extremely large databases. From simple to complicated:

- Which MOB are within a given bound from a given latitude, longitude, and time?
- Detect when two given MOBs were within a given distance.
- Given a MOB, detect all MOBs ever within a given distance.
- Find all occurrences of two MOBs within a certain distance.

In this presentation we will demonstrate the queries noted above on a real world data set and show the resulting moving objects on Google Earth.

About Dr. Aasman

Jans Aasman started his career as an experimental and cognitive psychologist, earning his PhD in cognitive science with a detailed model of car driver behavior using Lisp and Soar. He has spent most of his professional life in telecommunications research, specializing in intelligent user interfaces and applied artificial intelligence projects. From 1995 to 2004, he was also a part-time professor in the Industrial Design department of the Technical University of Delft. Jans is currently the CEO of Franz Inc., the leading supplier of commercial, persistent, and scalable RDF database products that provide the storage layer for powerful reasoning and ontology modeling capabilities for Semantic Web applications.

Accomplishments:

Dr. Aasman has gained notoriety as a conference speaker at such events as Semantic Technologies Conference, International Semantic Web Conference, Java One, Enterprise Data World, Semantics in Healthcare and Life Sciences, Linked Data Planet, INSA, GeoWeb, AAAI, NoSQLNow, Graph Data Management, RuleML, IEEE conferences, and DEBS to name a few.

About Franz Inc.

Franz's semantic technology solutions help bring Web 3.0 ideas to reality. The company is the leading supplier of commercial, persistent and scalable Graph Database products. AllegroGraph is a high-performance database capable of storing and querying billions of RDF statements. The product provides solutions for customers to combine unstructured and structured data using W3C standard RDF for creating new Web 3.0 applications as well as identifying new opportunities for Business Intelligence in the Enterprise. AllegroGraph's Activity Recognition package provides a powerful means to aggregate and analyze data about individual and organizational behaviors, preferences, relationships, plus spatial and temporal linkages between individuals and groups. Franz customers include Fortune 500 companies in the government, life sciences and telecommunications industries. For more information, visit franz.com.