

A Big Geo Data Query Framework to Correlate Open Data with Social Network Geotagged Posts

Gloria Bordogna, Steven Capelli, Giuseppe Psaila

Abstract The objective of this paper is to fill in the gap existing between the need of business companies and analysts to spatially correlate open geo-data and social network geo-tagged information, and the lack of tools to enable this task in an easy way. To this end we propose a novel declarative query language named J-CO (JSON Collections) to perform complex queries on heterogeneous collections of data stored within a NoSQL database as JSON objects.

Keywords Collections of JSON objects, Geo-tagged data sets, Query language for geographical analysis, Powerful spatial operators