Noisy Semantic Data Processing in Seoul Road Sign Management System

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The Seoul Road Sign Management (RSM) is a system which provides the semantic integration of LOD’s Linked Geo Data and Open Street Map with Korean POI data set. That is an attempt to develop intelligent road sign management system based on the LarKC platform. The RSM data set contains over 1.1 billion triples of semantic data. However, significant amount of the RSM data are noisy (e.g., inconsistent, partial, or erroneous). We have facilitated the RSM system with the capability of processing and reasoning with noisy semantic data, so that the RSM system is robust enough to return intended answers in spite of the poor quality of the semantic data.