

Abstract

**APPARATUS AND METHODS FOR USING BAYESIAN PROGRAM LEARNING FOR
EFFICIENT AND RELIABLE GENERATION OF KNOWLEDGE GRAPH DATA
STRUCTURES**

In some embodiments, an apparatus includes a memory and a processor operatively coupled to the memory. The processor can be configured to receive multiple heterogeneous data records from at least one data source. The processor is configured to extract a set of features from the multiple data records, and to normalize the extracted set of features. The processor is configured to selectively combine the extracted set of features to define entity records. The processor is configured to associate two or more entity records to form relationships that have an indication of relation type and an indication of relation likelihood. In some embodiments, the processor can be configured to generate a knowledge graph data structure on the entity records and relationships.

FIG. 1