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(54) Title: AUTOMATIC KNOWLEDGE GRAPH CONSTRUCTION

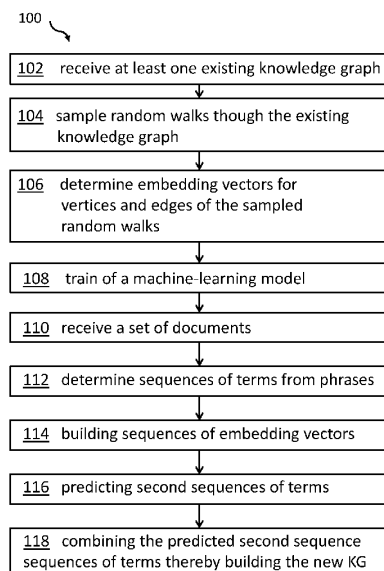


FIG. 1

(57) Abstract: A method for building a new knowledge graph may be provided. The method comprises providing an existing knowledge graph, sampling random walks through the existing knowledge graph, determining embedding vectors for vertices and edges of the sampled random walks, and training of a machine-learning model taking as input sequences of the embedding vectors of the random walks. Furthermore, the method comprise receiving a set of documents determining sequences of terms from phrases from the documents the documents, building sequences of embedding vectors from the determined sequences of terms from the phrases, and using the built sequences of embedding vectors from the determined sequences of terms from the phrases as input for the trained machine-learning model for predicting second sequences of terms. Finally, the method comprises merging the predicted second sequences of terms thereby building the new knowledge graph.

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