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(54) Title: SYSTEM AND METHOD FOR RELATION EXTRACTION WITH ADAPTIVE THRESHOLDING AND LOCALIZED CONTEXT POOLING

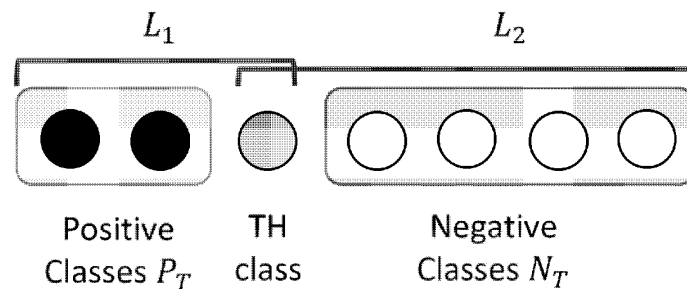


FIG. 3

(57) Abstract: System and method for relation extraction using adaptive thresholding and localized context pooling (ATLOP) are provided. The system includes a computing device, the computing device has a processor and a storage device storing computer executable code. The computer executable code is configured to provide a document; embed entities in the document into embedding vectors; and predict relations between a pair of entities in the document using their embedding vectors. The relation prediction is performed based on an improved language model. Each relation has an adaptive threshold, and the relation between the pair of entities is determined to exist when a logit of the relation between the pair of entities is greater than a logit function of the corresponding adaptive threshold.

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