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Semantic modeling using theta-roles: a natural language processing-based approach to conceptual representation

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This paper presents a natural language processing semantic modeling approach that can be automated to pull conceptual information from text documents. The approach is based in the use of theta-roles, in particular thematic-hierarchies, to create a collection of vectors culled from the sentences of a document that describe content of the document. This approach can form the basis of a natural language processing-based concept representation scheme.