In this paper, the named entity recognition system is built using morphological, lexical and semantic analysis. Rule based system is designed for template mining from the Arabic text. Arabic texts are selected from oil production domain. They are taken from Arabic BBC, RT and CNN websites. The System is tested on these texts and the results give high performance, less error made and good accuracy in finding the templates from texts according to named entities extracted.

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Index Terms

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Named Entity Recognition, Template Mining, Morphological Analysis, Lexicon, Semantic Analysis.