Abstract

The software requirements specifications are usually written in natural language. As a result, it may cause the generation of various defects such as ambiguity, inconsistency or lack of readability. Techniques of natural language processing have been proposed to improve the specification of requirements for semi-automatic mode, but so far have not been widely adopted. Some researchers say the natural language processing is not mature enough to be applied in requirements engineering. However, several proposals have shown promising results. For example, making specifications written in natural language specifications written in formal specification languages or extracting relevant domain knowledge such as concepts and relationships, from the specifications. This study introduces the relationship between Requirements Engineering and Natural Language Processing, NLP relevant trends are summarized and new research challenges are proposed to the community of RE.


Index Terms

Computer Science

Software Engineering

Keywords

Requirements engineering (RE), Classification, Software Requirements, Latent Semantic Analysis (LSA), Singular Value Decomposition (SVD)