A Semantically-based Lattice Approach for Assessing Patterns in Text Mining Tasks

John Atkinson, Alejandro Figueroa, and Claudio Pérez

Dept. of Computer Sciences, Faculty of Engineering,
Universidad de Concepcion, Chile

Yahoo! Research, Santiago, Chile

atkinson@inf.udec.cl, claudioperezcarcamo@gmail.com, afiguer@yahoo-inc.com

Abstract. In this paper, a new approach to automatically assessing patterns in text mining is proposed. It combines corpus based semantics and *Formal Concept Analysis* in order to deal with semantic and structural properties for concepts discovered in tasks such as generation of association rules. Experiments show the promise of our evaluation method to effectively assess discovered patterns when compared with other state-of-the-art evaluation methods.

Keywords. Text mining, concept lattices, semantic analysis, association rules.

Un enfoque de lattice basado en semántica para evaluar patrones en tareas de minería de textos

Resumen. En este artículo, se propone un nuevo enfoque para la evaluación automática de patrones en minería de textos. Éste combina semántica basada en corpus y *Análisis Formal de Conceptos* con el fin de manejar propiedades estructurales y semánticas para conceptos descubiertos en tareas tales como generación de reglas de asociación. Los experimentos muestran los resultados promisorios de nuestro método para evaluar efectivamente patrones descubiertos cuando se compara con otros mtodos de evaluación de la literatura.

Palabras clave. Mineria de textos, lattices conceptuales, análisis semántico, reglas de asociación.

1 Motivation

Despite the effort of the different text mining approaches to measure interestingness, for example, in association rules, there is no evidence that this actually leads to valuable patterns. For text mining [8, 7] patterns also need to be assessed in terms of interestingness or novelty [1]. However, due to the nature of the natural language texts, this task poses several problems regarding with text analysis. Hence traditional interestingness metrics cannot be applied.

Text Mining can potentially benefit from successful evaluation techniques from Data Mining and Web mining [7]. However, data mining methods cannot be immediately applied to text data for text mining as they assume a structure in the source data which is not present in free text. Hence the assessment of the patterns discovered from texts has almost been a neglected topic in the majority of the text mining approaches.

A major problem is that current text mining methods do not always discover real interesting patterns (i.e., association rules). This may be partially due to the fact that no domain users are involved in the evaluation, domain knowledge is not usually considered and further semantic relationships measuring interestingness are very rare. Patterns evaluation for text mining has been a neglected topic so the few existing approaches fall into two groups: those which are domain-independent [3, 1] and those which use external resources such as lexicons and ontologies. One of the drawbacks with the first one is that it does not take advantage of domain models in order to assess implicit relationships within the generated patterns so as to assess their novelty. Whereas, the second kind of approach is highly dependent on the existence and organization of electronic concept resources such as ontologies and thesaurus.

Accordingly, in this paper, a new approach which combines structural and semantic features is proposed in order to accurately assess the real interestingness of patterns discovered (i.e., association rules) by a traditional text mining task. The model uses structural knowledge extracted

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