From once upon a time to happily ever after: Tracking emotions in mail and books.

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Saif M. Mohammad ✉

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Abstract

In this paper, we show how sentiment analysis can be used in tandem with effective visualizations to quantify and track emotions in mail and books. We study a number of specific datasets and show, among other things, how collections of texts can be organized for affect-based search and how books portray different entities through co-occurring emotion words. Analysis of the Enron Email Corpus reveals that there are marked differences across genders in how they use emotion words in work-place email. Finally, we show that fairy tales have more extreme emotion densities than novels.
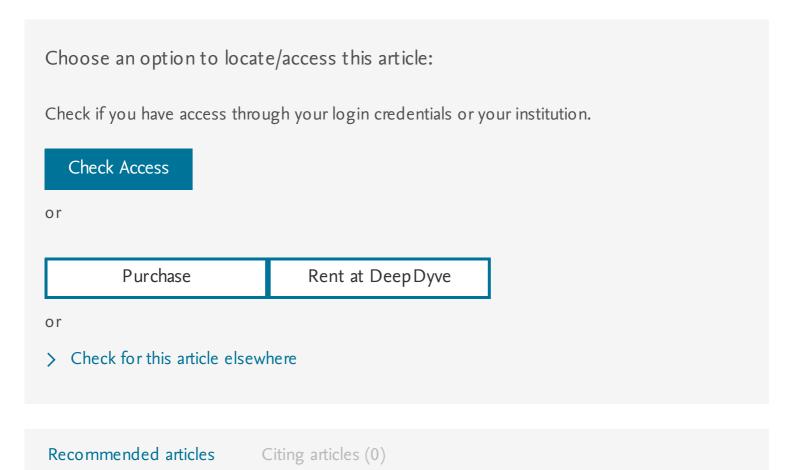
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Keywords

Emotion analysis; Sentiment analysis; Lexicon; Email; Fairy tales; Enron Corpus; Google Books Corpus

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Dr. **Saif Mohammad** is a Research Officer at the Institute for Information Technology, National Research Council Canada (NRC). He received his Ph.D. in Computer Science from University of Toronto in January 2008. He was a Research Associate in the Institute of Advanced Computer Studies at the University of Maryland, College Park, before joining NRC in 2009. Saif's research interests are in Natural Language Processing, especially Lexical Semantics. He develops computational models for emotion detection, word-color associations, semantic distance, and lexical contrast.

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