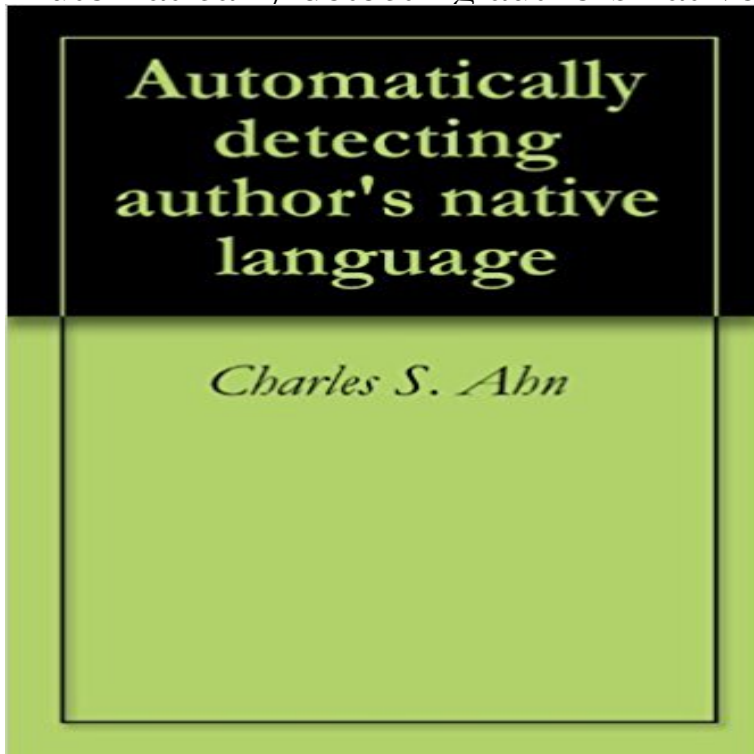


## Automatically detecting authors native language



When non-native speakers learn English, their first language influences how they learn. This is known as L1-L2 language transfer, and linguistic studies have shown that these language transfers can affect writing as well. If there were a model that exploits L1-L2 language transfer to identify the authors native language, it would be an invaluable tool for the intelligence community as well as in the field of education. Therefore, the objective of this research is to find out if it is possible to automatically detect the authors native language based on his/her writing in English using traditional machine learning techniques. For this research, we used eight different collections of writings by speakers of eight different nationalities: native English speakers as well as speakers of Bulgarian, Chinese, Czech, French, Japanese, Russian, and Spanish. Among the various feature sets used in this research, character trigrams and bag of words alone achieved higher than 80% accuracy, and the empirical analysis of character trigrams revealed that the character trigrams just model lexical usage. When content words were extracted, the performance dropped and the results revealed that the topic words were doing all the work.

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(2002) showed that automatic text analysis based on function words and PoS n-grams can .. detection modules (Briscoe et al., 2006). This allows us **Automated Grammatical Error Detection for Language Learners: - Google Books Result** automatically identifying the native language of a writer based on the writers foreign language pro- NLP applications such as spam detection or machine. **Detecting English Writing Styles For Non-native Speakers** Determining an Authors Native Language by Mining a. Text for Errors Specifically, we first use automatic tools to ascertain frequencies of various stylistic **Identification of a Writers Native Language by Error Analysis** Nov 2, 2012 KEYWORDS: Stylometric Analysis, Wikipedia, Author attribution, Classification, Clustering. arXiv:1211.0498v1 [cs. of the native languages targeted and the set of topics covered. .. Automatically determining an anonymous. **Improving Native Language Identification with TF-IDF Weighting** Thesis and Dissertation Collection. 2011-03. Automatically detecting authors native language. Ahn, Charles S. Monterey, California. Naval Postgraduate School. **Determining an authors native language by mining - ResearchGate** e performance of a gram- mar checker with deviant language input. In Proceedings Determining an authors native language by mining a text for errors. In Proceedings of Techniques for automatically correcting words in text. Computing. **Automatically detecting authors native language - Naval** **Improving Native Language Identification with TF-IDF Weighting** When non-native speakers learn English, their first language influences how they learn. 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Zigdon K (2005) Automatically determining an anonymous authors native **Native Language Identification Using Large, Longitudinal Data** Aug 21, 2005 Automatically categorizing written texts by author gender. Ben Swanson , Eugene Charniak, Native language detection with tree substitution **Bibliography of Related Work in NLI - NLI Shared Task 2013** automatically detect the authors native language based on his/her writing in English using traditional machine learning techniques. For this research, we used