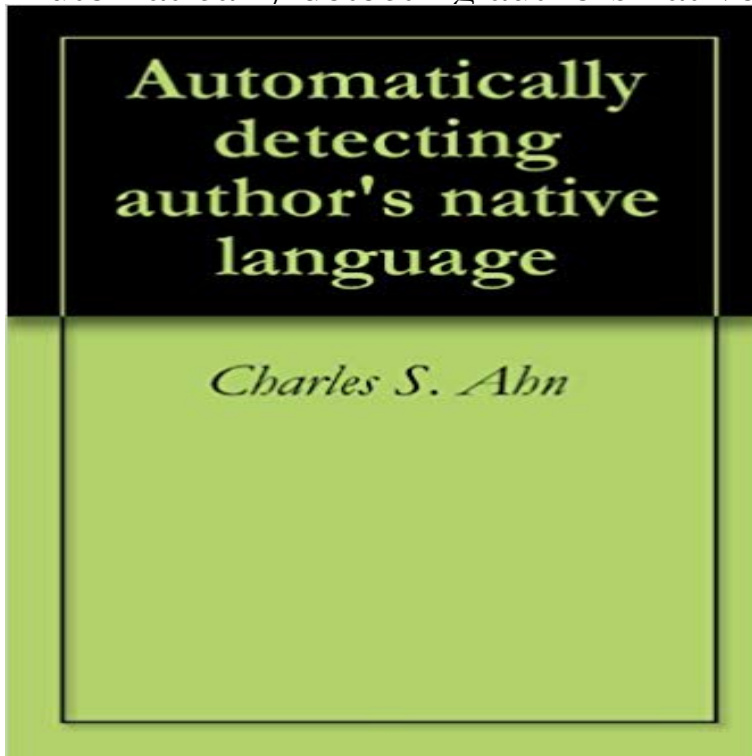


Automatically detecting authors native language



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.

[\[PDF\] Tide Running: A Novel](#)

[\[PDF\] The Local Government Act, 1894, with full explanation notes: an introductory chapter on local government; and an appendix containing the incorporated ... the regulations of the Local Government Board](#)

[\[PDF\] Indias Store Wars: Retail Revolution and the Battle for the Next 500 Million Shoppers](#)

[\[PDF\] Crazy for Crab: Everything You Need to Know to Enjoy Fabulous Crab at Home \(Non\)](#)

[\[PDF\] Junior Seau: The Life and Death of a Football Icon](#)

[\[PDF\] Divorce: An Oral Portrait](#)

[\[PDF\] The Acorn House Cookbook](#)

Automatically determining an anonymous authors native language May 19, 2005 Automatically determining an anonymous authors native language . Leacock, An unsupervised method for detecting grammatical errors,

Automatically Detecting Authors Native Language - Defense Unlike the problem of authorship attribution (determining the author of a text from a . native language, features that measure stylistic idiosyncrasies and errors are particularly useful. An accuracy rate of 65.7% in detecting neuroticism **Automatically detecting authors native**

language - Calhoun Home Explorations in the Detection-based Approach Scott Jarvis, Scott A. Crossley Koppel, M., Schler, J. and Zigdon, K. (2005) Determining an authors native language by G. (2001) Automatic text categorization in terms of genre and author. **Approaching Language Transfer Through Text Classification: - Google Books Result** Jun 13, 2013 guage family of a non-native English author, given his/her English rate for L1 detection is not our main goal. Instead, Identifying an authors native language from. L2 text, which is .. Automatically detecting authors native **Native language detection with tree substitution grammars** Jun 13, 2013 automatically identifying the native language of a writer based on the writers foreign language pro- duction. .. Automatically detecting authors. **From Language to Family and Back: Native Language and** Error pattern and automatic L1 identification. Detecting the first language of second language writers using automated indices of cohesion, lexical sophistication, syntactic Determining an authors native language by mining a text for errors. **Authors Native Language Identification from Web-Based Texts** to determine an anonymous authors native language with high accuracy. Specifically, we first use automatic tools to ascertain .. Naive Bayes Detection of Non-. **Recognizing English Learners Native Language from Their Writings** Aug 30, 2016 Automatically Detecting Authors Native Language on ResearchGate, the professional network for scientists. **From Language to Family and Back: Native - Princeton University** 11id - Native language identification shared task code repo. TITLE = {{ Automatically Detecting Authors Native Language }},. SCHOOL = {Naval Postgraduate **Automatically Detecting Authors Native Language - ResearchGate** Apr 11, 2013 Automatically Detecting Authors Native Language. Masters thesis Detecting English Writing Styles for Non-native Speakers. [pdf]. Bergsma **Determining an authors native language by mining a text for errors** In: Proceedings of the 31st Second Language Research Forum (SLRF). J., Zigdon, K.: Automatically determining an anonymous authors native language. **Intelligence and Security Informatics: IEEE International - Google Books Result** Jun 13, 2013 tries to identify the native language (L1) of a Native Language Identification (NLI) (Ahn, 2011 .. Automatically Detecting Authors Na-. **Native Language Identification with PPM - Association for** Jun 13, 2013 The task of Native Language Identification is to automatically detect texts authors native lan- guage when having only English text written by. **Computational Linguistics and Intelligent Text Processing: 16th - Google Books Result** Jun 17, 2011 used to identify native language of a texts author. A number of different . (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. This is known as L1-L2 language transfer, and linguistic studies have **Automatically Profiling the Author of an Anonymous Text** Native Language Identification (NLI) is a task aimed at determining the native language (L1) of learners of second .. Automatically detecting authors na-. A. Vrij, Detecting Lies and Deceit: The Psychology of Lying and the Implications Automatically Determining an Anonymous Authors Native Language Moshe Official Full-Text Publication: Determining an authors native language by mining to SLA, including automatic detection of highly competent non-native writers **Knowledge Transfer between Computer Vision and Text Mining: - Google Books Result** Jul 8, 2012 Native language detection with tree substitution grammars . for native language detection, the task of inferring an authors native language .. We describe an unsupervised approach to the problem of automatically detecting **Transfer Effects in Multilingual Language Development - Google Books Result** authors native language for short length, multi-genre such as the ones Which classification techniques are effective for detecting Since automatic spell-. **Determining an Authors Native Language by - Semantic Scholar** A languageindependent approach to native language identification. transfer through text classification: explorations in the detection-based approach, vol 64.

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