

Dissertação de Mestrado em Engenharia Informática (2019/2020)

Title: Machine learning techniques for Automated Language-Independent Authorship Verification.

Supervisor: Prof. Sebastião Pais

Co-supervisor: Prof. Nuno Pombo

Summary

New trends in the development of information and communications technology have resulted in the vast number of digital documents, written by anonymous authors. However, there is a constant need, of both financial and legal nature, for authorship verification in the case where the author is unknown [1]. However, this type of forensic methods raises several challenges due to the singularity and the complexity of each language, that may lead for a time-consuming identification procedure. Thus, automated language-independent authorship verification is a promising approach, and therefore, a benchmark including different models and techniques is timely and may to provide a greater academic understanding on this topic.

Tasks

- T1 – Technological background study;
- T2 – Review the State-of-the-art, write the survey about this problematic;
- T3 – Requirements Analysis;
- T4 – Design and construction, including integration;
- T5 – Testing and evaluation;
- T6 – The writing of the dissertation.

Expected result

In this research work the following deliverables are expected:

- A validated computational tool;
- A publication describing the method and the validation results.

Timeline

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
T1	X	X	X						
T2		X	X	X					
T3			X	X					
T4				X	X	X			
T5						X	X	X	
T6					X	X	X	X	X

References:

[1] Adamovic, S. , Miskovic, V. , Milosavljevic, M. , Sarac, M. and Veinovic, M. (2019), Automated language-independent authorship verification (for Indo-European languages). Journal of the Association for Information Science and Technology. doi:10.1002/asi.24163