

# PAN

Lab on Digital Text Forensics and Stylometry

[pan.webis.de](http://pan.webis.de)

SHARED TASKS  
AT CLEF 2023

# Shared Tasks at PAN 2023

## Cross-Discourse Type Authorship Verification

by Efstathios Stamatatos, Krzysztof Kredens, Piotr Pęzik, and Annina Heini

**Task:** Given two texts, determine if they are “written” by the same author.

- ❑ Documents are from different discourse types:  
written (essay, email, ...) vs. oral (interview, speech transcript, ...)

**Data:** Pairs of English texts from the Aston 100 Idiolects Corpus.

- ❑ 112 Aston University undergraduate students donated personal texts.
- ❑ Pairs in training dataset: ca. 9,000.

**Output:** Binary classification w/ non-decision option.

**Evaluation:** AUC, F1, c@1, F0.5, Brier

# Shared Tasks at PAN 2023

## Profiling Cryptocurrency Influencers with Few-shot Learning

by Francisco Rangel, Mara Chinea-Ríos, Marc Franco-Salvador, and Paolo Rosso

**Task:** Given a Twitter timeline, determine the account's influence, interest, and intent.

- ❑ Level of **influence** of the account. none, nano, micro, macro, mega
- ❑ **Interest** of the account. technical information, price update, trading, gaming, other
- ❑ **Intent** of the account. subjective opinion, financial information, advertising, announcement

**Data:** Small sections of Twitter timelines (low-resource scenario).

- ❑ ca. 10 English tweets per account.
- ❑ Accounts in training dataset: 160 (influence), 320 (interest), 256 (intent)

**Output:** Multi-class classification – one of the offered classes per input example.

**Evaluation:** Macro  $F_1$

# Shared Tasks at PAN 2023

## Multi-Author Writing Style Analysis

by Eva Zangerle, Maximilian Mayerl, Martin Potthast, and Benno Stein

**Task:** Given a document, determine at which paragraph the author (style) changes.

- ❑ **Easy:** The paragraphs of a document cover various topics, topic change indicates authorship changes.
- ❑ **Medium:** The intra-document topical variety is small.
- ❑ **Hard:** All paragraphs in the document are on the same topic.

**Data:** Reddit comment threads combined into single documents, controlled for topic.

- ❑ Documents in training dataset: 8,300 examples per difficulty.

**Output:** Binary classification (change/no change) for each consecutive paragraph.

**Evaluation:** Macro  $F_1$  over the per-document scores.

# Shared Tasks at PAN 2023

## Trigger Detection

by Magdalena Wolska, Matti Wiegmann, Martin Potthast, and Benno Stein

**Task:** Given a document, determine if the document contains discomfoting or distressing (triggering) content.

- ❑ 32 possible warning labels. violence, death, sexual-assault, abuse, blood, suicide, ...
- ❑ ca. 1–4 labels per document.

**Data:** English fanworks from `archiveofourown.org` (AO3).

- ❑ Length of the works: ca. 50–6,000 words
- ❑ Documents in training dataset: ca. 300,000.

**Output:** Multi-label classification – all appropriate warning labels.

**Evaluation:** Macro  $F_1$  over the classes.

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## 1. Cross-Discourse Type Authorship Verification

Given two texts with written and oral discourse types, determine if they are written by the same author

by Efstathios Stamatatos, Krzysztof Kredens, Piotr Pezik, and Annina Heini

## 2. Profiling Cryptocurrency Influencers with Few-shot Learning

Given a Twitter timeline, determine the accounts's influence, interest, and intent.

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## 3. Multi-Author Writing Style Analysis

Given a document, determine at which positions the author changes

by Eva Zangerle, Maximilian Mayerl, Martin Potthast, and Benno Stein

## 4. Trigger Detection

Given a document, determine all trigger warnings.

by Magdalena Wolska, Matti Wiegmann, Martin Potthast, and Benno Stein