

Technology-based User Support for Credibility Evaluation of Online Content



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<http://isds.tugraz.at/codis>



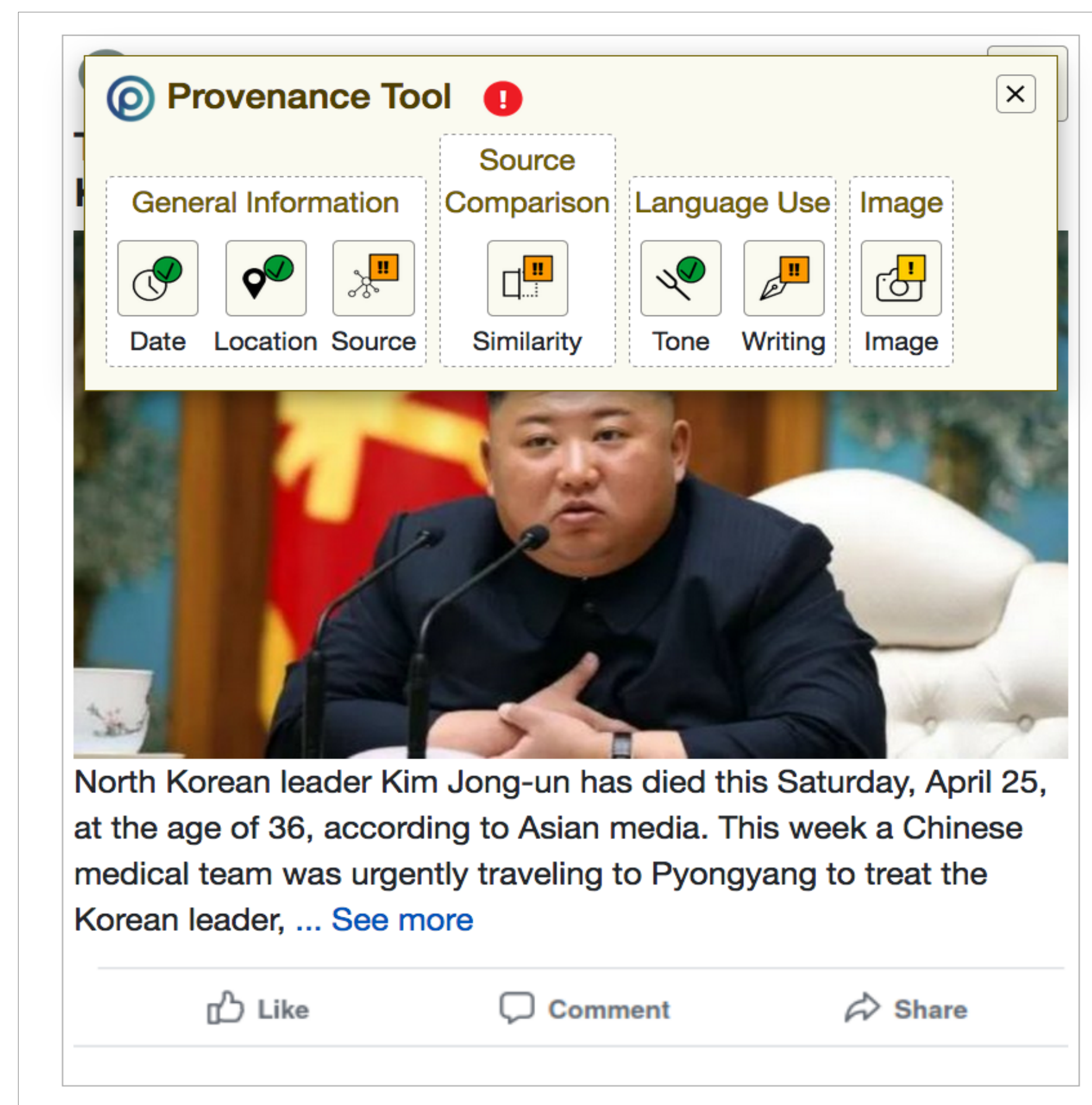
Verification Indicator Tool

The Verification Indicator analyses online news article and provides warning for suspicious content and images. Seven types article features are analysed separately: Date of article, location of publication, origin of publication, similarity of text, emotional tone of writing, quality of writing, re-use and manipulation of image. Each feature can be flagged with a warning and further information is provided to the user.



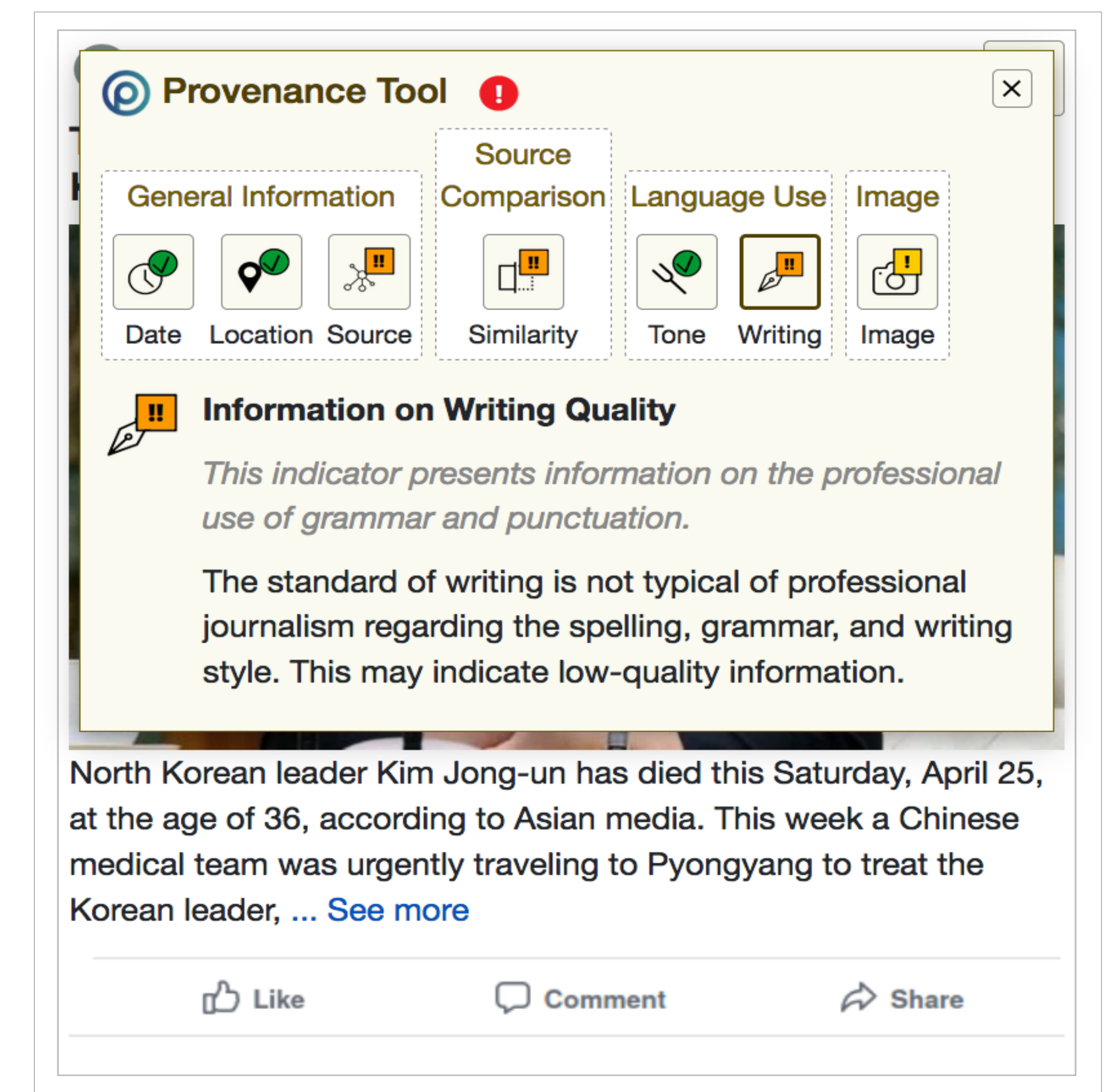
Level 1

The whole article is flagged.



Level 2

An overview of the suspicious features is shown.



Level 3

Detailed information on a feature is given.

Research Study on Credability Evaluation

Study goal and method

Research questions

- Do users show better performance regarding detecting fake news when using the Verification Indicator Tool?
- How do users perceive and accept the Verification Indicator Tool?

Study method

- 2 Online studies (English and Spanish)
- A/B Testing – with and without warning sign
- 6 articles – 3 real news & 3 fake news
- 72 + 55 participants

Results

Performance

- Real news are more familiar, credible and likely to share than fake news
- Tool use and performance in accurately judging news are positively correlated ($r=.41$)
- Better performance to identify fake news with the warning sign available

Feedback and behavioural aspects

- All user acceptance aspects were positively assessed
- More frequent use of the tool with fake news article



CoDiS Overview

The CoDiS Lab is a research group at Graz University of Technology, Institute of Interactive Systems and Data Science. It focuses on interdisciplinary research by connecting and applying computer science with cognitive psychology. The main research areas of CoDiS include (a) digital literacy development, (b) human and computational decision making, and (c) human-centred system design and evaluation.

Within its main research areas the CoDiS Lab team performs and implements work on theoretical and cognitive models, conceptual approaches, empirical studies, software applications, and evaluation.

The team has a long-lasting experience in 20+ research projects on international level and active student participation (bachelor, master, PhD) in their research and projects.



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