

UNCOVER

The logo for UNCOVER, featuring the word "UNCOVER" in a bold, blue, sans-serif font. The letter "O" is replaced by a stylized circular graphic composed of concentric blue rings and dots, resembling a network or a digital eye.

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Development of an efficient steganalysis
framework for uncovering hidden data
in digital media

 www.uncoverproject.eu

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ABSTRACT

Criminals and terrorists use more and more data hiding methods (steganography) for concealing incriminating information in innocent-looking digital media files such as images, video, audio, and text files. The main objective of UNCOVER is to fill existing gaps in the ability of Law Enforcement Agencies (LEAs) for detecting the presence of such hidden information (i.e., steganalysis). The partners of UNCOVER are committed to substantially increase the technological autonomy of LEAs in the field of digital media steganalysis. With its consortium of 22 partners including LEAs, forensic institutes, leading researchers working at universities and research institutions, as well as industrial companies, UNCOVER sets out to outperform available steganalysis solutions in terms of performance, usability, operational needs, privacy protection, and chain-of-custody considerations.

PROJECT OBJECTIVES



CONDUCT a detailed analysis about the various aspects of the needs and requirements of LEAs for detecting and investigating steganography.



CONSOLIDATE relevant information about existing steganographic tools and centralise this information in an intuitive database for LEAs.



IMPROVE existing methods for operational steganalysis in digital media workflows.



IMPLEMENT a flexible and interoperable platform for the integration of steganalysis detection tools.



DEMONSTRATE the steganographic detection capabilities with realistic test cases and scenarios.



ENSURE the obtained results are admissible in European court rules.



PROVIDE a comprehensive training program for LEAs and forensic institutes by providing in-house training.



DISSEMINATE outcomes, communicate the project and prepare an exploitation and sustainability plan.



PROJECT FACTS

Duration

36 Months

Horizon 2020

SU-FCT02-2020

Research and
Innovation Action

REFERENCE


101021687


Coordinator


ROYAL MILITARY ACADEMY
(Belgium)

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