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Student course topic: IT - Security

Current lecture topic: Digital Watermarking

Which security aspect(s) is/are addressed by the method(s) / concept(s) described ...

... in the current lecture topic?

- ☒ Confidentiality
- ☒ Authenticity
- ☒ Integrity
- ☐ Non-repudiation
- ☐ Availability
- ☐ Privacy
- ☐ None

... in your chosen student course topic?

- ☐ Confidentiality
- ☒ Authenticity
- ☒ Integrity
- ☐ Non-repudiation
- ☐ Availability
- ☐ Privacy
- ☐ None

a) For the current lecture topic, which current application scenarios have you seen in the news or literature?

Important: Include a reference (e.g. website) for your news item!

Wal-Mart testet Wassermarking bei Produkten (Bildermarken zu den Treuekarten danken)
Ref: www.cnn.com, Artikel: Wal-Mart testet 'unsichtbare' Barcode an den Produkten, Sunday China Company Sonntag

b) Do you think your chosen student course topic could be combined with the current lecture topic to increase the security or usability of media objects?

- ☒ yes ☐ no

c) If you answered in b) above with yes:

How could the combination of both topics be implemented?

Spoken Watermarking of Fingerprints using portable device for authentication (P. Nguyen et al., 2014)
1. Fingerprint wird als Bild geladen und der Bereich des Fingers wird
2. Fingerprint als Wassermark in das Audio-Datei eingeblendet und der Erfolg gespeichert

What could be the benefit of this combination?

Kombination der beiden Methoden: Stimme und Fingerabdruck

What would be the cost/downside of this combination?

die Implementierung beschreiben Wassermark
Kombi von Fingerabdruck (den Markt) unerschwinglich, aber möglich (net. Netz)

Which application scenario do you see where this combination could/should be applied?

Das Rezept selbst durch Aufnahme der Stimme und Fingerabdruck ver.
Allgemein kann das Verfahren überall eingesetzt werden, bei denen Stimme- und Fingerabdruck
verfügen.

d) If you answered in b) above with no:

Which reasons do you see that prevent a combination of both topics?