

Name: Sebastian BeyerDate: 30.06.2018Student course topic: IT - SecurityCurrent 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!

Wol - Mark perfect Watermarking bei Amazon (Befürworter zu dem Trade-Mark-Verfahren)

Ref: www.amazon.com, Artikel: Wol-Mark: 'unsichtbar' bewahrt den Imprint, sorgt gegen Copying

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?

Spaced Watermarking of Fingerprints using perceptual hashing for authentication (P. Nguyen et al., 2014)
 1. Fingerprints sind als Hash gelad, und die Perzeption ist wichtig
 2. Authentifizierung als Wassermark in die Hash-Daten eingebettet und zur Erfolge genutzt

What could be the benefit of this combination?

Verbesserung der Identifikationsmethode: Stimme und Fingerabdruck

What would be the cost/downside of this combination?

1. Propagationskosten beschützen Verfahren
 2. Kosten von Fingerprinten (den Hash) unvorstellbar, aber möglich (net. Netz)

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

Das Netz schützt Hash, Nutzung von Gen. Daten - Security des.
 Netzwerk kann das Verfahren überall eingesetzt werden, zwischen Server- und Fingerprinten

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

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