

Panel Session: Watermarking

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“Watermarking”, “Tattooing”, and “Fingerprinting” are praised protection techniques in the world of Intellectual Property Protection of electronic documents. However, most of the important characteristics of these techniques remain fuzzy in a large part of the current literature, including the definitions, the considered threats, the precise security requirements to which they are supposed to bring answers, the assumptions about the reception equipment, and so on.

Here is a non-exhaustive list of questions on which the panelists will be invited to contribute. The list is long and can receive neither complete nor definitive answers in a panel. However, if important clarifications and appropriate references are brought, the exercise will be fruitful indeed. In what follows – as well as in the title – “watermarking” stands for a generic concept covering all the related techniques.

1. What are the security requirements? How can they be classified? What are the assumptions about the threats to counter, about the reception equipment?
2. Which requirements are most likely to conflict?
3. What are the definitions of the various watermarking techniques and of the related concepts?
4. For each security requirement, are there alternative solutions to watermarking?
5. For each type of document, e.g. text, image, music, . . . , and for each security requirement, do taxonomies of technical solutions exist?
6. What are the known residual vulnerabilities of the existing techniques?
7. What are the main open research problems?
8. Which watermarking techniques are interoperable?
9. How to evaluate the existing techniques? Would it be relevant to define Protection Profiles?

The panelists will be experienced actors in the domain. An active participation of the attendees is expected.