Digital Forensics (IY5609 / IY4609 / IY3609) Summative Assessments – CW1 & CW2 Organization & Guidance

Dr Christian Weinert Academic Year 2023/24



Reminder: Record Your Attendance!





CW1 Organization



Date & Time



- Date: Wednesday, 14th of February 2024
- Time:
- 09:00 10:00: We will have a regular lecture for one hour
- 10:00 10:30: Break
- 10:30 12:00: The Moodle quiz will be available. Within this time frame, you have **one hour** to complete the quiz, **D&N adjustments** will be automatically considered.

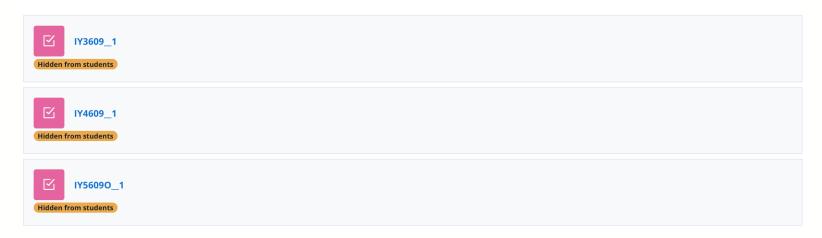
If you bring a suitable mobile device, you can stay in the lecture hall to work on the quiz. In this case, make sure **beforehand** that your device is **sufficiently charged**, and the **network connection is working**. Alternatively, you can use the break to relocate to one of the PC labs on campus or go home if you live close by.

Moodle Setup



→ CW1: Quiz Hidden from students

The quiz will only be activated on Moodle on 14th February 2024, 10:30-12:00. Only one hour is allotted to the quiz, so be sure to answer questions concisely. You are advised to review all questions prior to answering to ensure that you begin by answering the question(s) you feel most confident about, but do not dwell too long on any particular question.



Make sure to select the quiz that corresponds to the **module code for which you are registered** as there will be slight differences in the assessment.

CW2 Organization



Key Data



Deadline: 4th of April 2024, 2pm

Submission: **one PDF** document via Moodle in the **correct submission folder** for your module code

The target (and soft maximum) length of the paper is:

- IY3609: 2000 words
- IY4609: 3000 words
- IY5609: 4000 words

Assignment Sheets





To be updated and approved for 23/24!

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Information Security Group School of Engineering, Physical and Mathematical Sciences Year 2022-23

Approved coursework for: IY3609 - Digital Forensics

CW Assignment: Summative Coursework 2 of 2 (Term Paper)

Word Count: maximum 2000 words (penalties will apply if you exceed this - do not repeat the questions in your submission)

Scope



Introduction



The term paper is meant to be an **essay** typically taking the form of a **literature review**

No original work is sought (although this is not ruled out entirely), but similar to an original research paper, a literature review benefits from one or two **clear and concise research questions**

 This will help select and filter articles, chapters, and conference contributions for their relevance to answering the question at hand – otherwise it is very easy to get sidetracked

Choice of Topic



You should choose your own topic satisfying the following constraints:

- Topics must be immediately **relevant to Digital Forensics**, i.e., either **directly related** to material covered, or **immediately adjacent** to it
- Material covered **should not overlap substantially** with what is already presented in lecture materials
- A reasonably narrow focus is advisable even if this is intended as a literature survey, technical depth and analysis is required, rather than merely a summary of results

Referencing



Referencing and Citations



In any academic writing, good referencing is important

- Where arguments are being reproduced, or results summarized, accompany this with a reference, even if the same source has been cited previously: Citing a source once and relying on it in several places is not adequate
- Citation styles vary, but should be sufficient to easily find the source
- You can use **LaTeX** (with BibTeX or Biber), Endnote etc. use of a citation manager is advisable if only as a dry run for larger pieces of work later
- Recommendation is to use the ACM (e.g., [Hamacher et al., 2022]), IEEE (e.g., [23]) or "alpha" (e.g., [HKST22]) citation style; when using BibTeX, this is formatted automatically. Example entry in list of references:

[HKST22] Kay Hamacher, Tobias Kussel, Thomas Schneider, and Oleksandr Tkachenko: "PEA: Practical Private Epistasis Analysis Using MPC". In 27. European Symposium on Research in Computer Security (ESORICS'22), pp. 320–339, Springer, 2022.

Literature Sources



Meta Collections



- <u>Scopus</u>: Partially hand-curated database including material from other (paywalled) publishers. Allows forward and backward tracing of citations
- <u>DBLP</u>: Curated database of journals and conferences in most areas related to computer science, usually very clean meta-data. Free to access, but links to sources require permission (usually via College/UoL subscriptions)
- Google Scholar: Collects papers found outside paywalls by crawling, contains plenty
 of duplicates and citation counts are unreliable at best

Examples (1) — Scopus Search







Search Sources Lists SciVal 7



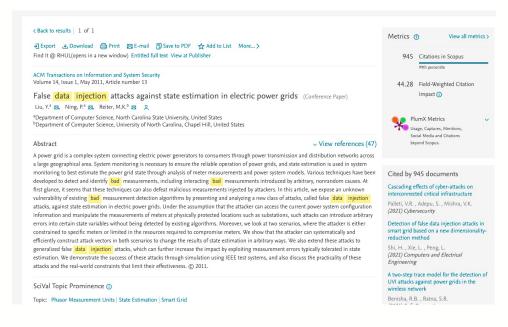








Document details



Sources of Literature – Selected Publishers



- <u>SpringerLink</u>: Not all publications are accessible via RHUL/UoL subscriptions electronically, but, e.g., most LNCS conference proceedings and many journals are
- <u>ScienceDirect</u>: Not all publications are accessible via RHUL/UoL (covers many disciplines)
- IEEE Xplore: Most material available, not all publications are at the same quality level
- ACM Digital Library: Complete archive of Computer Science publications back to 1958
- <u>arXiv</u>: Not a publisher as such, but will hold both pre-prints and some original work across mostly physics, mathematics, and computer science, no paywall
- Cryptology ePrint Archive: Preprint archive for cryptographic research, no paywall

Examples (2) – ACM DL Article View





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forensics	Search by: (All	\$	Source:	CORE2020	†
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Showing results 1 - 3 of 3

Title 🔷	Source 🔷	Rank 🔷
Digital Forensics, Security and Law. Journal	CORE2020	С
IEEE Transactions on Information Forensics and Security	CORE2020	A
International Journal of Electronic Security and Digital Forensics	CORE2020	С

Plagiarism



Defining (and Avoiding) Plagiarism



Consider for example the IEEE Publications Board definition of **plagiarism**:

"... the use of someone else's prior ideas, processes, results, or words without explicitly acknowledging the original author and source"

Copying results (duplication of text, even with minor alterations) without acceptable attribution

Can be detected automatically in part, but still surprisingly prevalent

Plagiarism includes:

- Not quoting passages taken directly => appropriate references are required in addition
- Paraphrasing without proper references
- Use of arguments, data, or evidence from other authors without references Exact citation standards and conventions do vary by field what is acceptable but sloppy in one area may be considered plagiarism elsewhere

Structure



Structuring the Paper



A term paper is relatively short and hence will not have a very elaborate internal structure, but will be broadly along the following lines:

- 1. Introduction
- Background (optional)
- 3. Problem Areas (one or several, depending on questions)
- 4. Discussion and Analysis
- 5. Conclusions
- 6. List of References
- 7. Appendices (if any)

Questions?



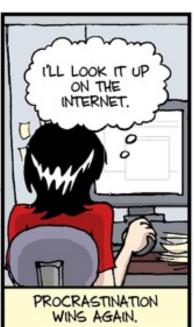
Remember the Deadline (4th of April 2024)











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