Multimedia and Security

Summer

(engl. Multimedia and Security)

Modulnummer: FIN-INF-120458

Kürzel	CP	Semester	Fachsem.	Dauer	Sprache	Niveau
MMSEC	6	Summer	1.	1 Semester	deutsch	Master

Link zum LSF:	LSF
Zugang beschränkt:	
Verantwortung:	Prof. Dr. Jana Dittmann
Dozent:in:	Prof. Dr. Jana Dittmann
Lehrveranstaltungen:	• Vorlesung *Mediensicherheit* • Übung *Mediensicherheit*
Verwendbarkeit:	- M.Sc. INF: Informatik - M.Sc. INGINF: Informatik - M.Sc. WIF: Informatik - M.Sc. VC: Computer Science

Angestrebte Lernergebnisse:
The students ...

- know and understand aspects of media security
- are able to independently deal with selected research questions in media security
- can evaluate existing approaches and creatively expand them for a research question
- can familiarize themselves with the semester-specific use case and reflect on it in a team
- can identify new approaches to media security for the research question
- can identify security requirements for the semester-specific use case and propose alternatives for improvement
- can implement, evaluate and assess a selected solution and identify residual risks
- can independently apply scientific methods of IT security
- can present the results scientifically in a presentation and take part in a discussion

Inhalt:

- Motivation, introduction and basics on selected topics of media security with current research questions and semester-specific use cases
- Summary of security aspects in multimedia applications and multimedia-specific implementations of security protocols and mechanisms for image, video and audio as well as combinations with a focus on the semester-specific use cases
- Development, implementation, evaluation and assessment of possible solutions for the semester-specific use cases
- Repetition: basics of teamwork, lecture is project-oriented

Arbeitsaufwand:
56 h attendance time + 124 h independent work

Prüfungsvorleistungen:	Studien-/Prüfungsleistungen:	Lehrform / SWS:
	Report The report comprises an independent and in-depth written examination of a question from the context of the course, including and targeted critical evaluation of relevant literature, as well as the presentation of one's own work, also in comparison in a team, and the communication and evaluation of one's own results in an oral presentation and in the subsequent discussion in the team. The work must be submitted in writing.	• Lecture (2 SWS) • Exercise (2 SWS)

Voraussetzungen nach Prüfungsordnung:	Empfohlene Voraussetzungen:
none	

Medienformen:	Literatur:

Hinweise:

https://omen.cs.uni-magdeburg.de/itiamsl/deutsch/lehre/index.html

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