



# HAGENBERG CAMPUS

## SUMMER SCHOOL IN COLLABORATIVE SYSTEMS AND SECURITY

8 - 14 July 2019

School of Informatics, Communications and Media,  
Hagenberg

[www.fh-ooe.at/summer-school2019](http://www.fh-ooe.at/summer-school2019)



UNIVERSITY  
OF APPLIED SCIENCES  
UPPER AUSTRIA



## SUMMER SCHOOL 2019

The **Summer School in Collaborative Systems and Security** will be held **8 - 14 July 2019** at our School of Informatics, Communications and Media in Hagenberg. It gives you an excellent opportunity to enhance your knowledge and at the same time explore Upper Austria, meet new people, and expand your network internationally.

We are inviting **Master's students with a Bachelor Degree in Computer Science, Human-Computer Interaction, Media Informatics and related fields** to join us for this international event! You can earn **4 ECTS** for this summer school.

### Main Focus

This summer school will be concerned with digital collaborative tools and their security. It will introduce the fundamentals of collaborative tools for digital teamwork and present examples of exciting technologies for co-located or remote collaboration: novel online media, large digital whiteboards, interactive tabletops, or head-mounted displays for collaboration in augmented or virtual reality. You will learn about how future collaboration will happen between humans and “smart” machines such as digital assistants or robots and why these systems still fail to address users' real-world needs.

IT security is of utmost importance for turning such novel collaborative technologies into reality. In our world of connected users and devices, networks have to provide secure communication and protocols. This is especially true for virtual organizations that co-operate via the internet and work with personal or sensitive content.

Collaboration increasingly relies on smartphones, wireless networks, and other devices connected to the internet (the Internet of Things), which are exposed to attacks. Achieving secure collaboration requires technical measures including authentication and efficient encryption to defend against today's and future (quantum) threats. Artificial Intelligence makes collaborative technologies smarter and easier to use while at the same time presenting new challenges. The social component of collaborative tools gives attackers yet another opportunity: Social Engineering.

## Programme

In addition to the seminars listed below, we would like to invite you to the **Ars Electronica Center** in Linz and a Welcome Dinner. For the weekend (July 13 and 14) a **visit to the beautiful region „Salzkammergut“** is planned. There are no extra charges for the trips.

## Topics covered

### Collaborative Media

- » Introduction into CSCW
- » Shareable Dynamic Media

### Co-located Collaborations

- » Tabletops&Co in Architecture
- » Human-Robot Interaction

### Mediated Collaboration

- » From Tabletop to Multi-Tablet & Hybrid Collaboration
- » Collaboration in Mixed Reality

### Security

- » Social Engineering - Hacking the Human
- » Internet of (Insecure) Things
- » Quantum Computing
- » Security Impact of Deep Learning in Video Surveillance Applications

### Tuition fee

Students from partner institutions are free of charge! Students who are not from a partner university have to pay a tuition fee in the amount of 350€. All students have to bear the costs for housing and travelling costs.

## How to apply

Once you decide to apply for the **Summer School**, please send an e-mail to [international@fh-hagenberg.at](mailto:international@fh-hagenberg.at). You will then receive a personalized registration link to our online application portal.

**Application deadline: April 30 2019.**

Please note that due to limited capacities a total of four students per institution can be accepted. Competitive entry: We reserve the right to decline applicants. Applicants will be notified about the outcome of the review and selection-process by the beginning of **May 2019**.

Please note that it is the student's obligation to take care of **visa arrangements** for entry and the duration of their stay in Austria. For information about the visa requirements check the OeAD website <https://oead.at/en/to-austria/entry-and-residence>.



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