

# Human-Computer Interaction

**Code:** SCI3098

**Extent:** 25 ECTS

**Language:** English

**Teacher in charge:** Prof. Antti Oulasvirta

**Administrative contact:** Anu Kuusela

**Target group and prerequisites:** The minor is suitable for technically oriented students in Aalto University who want to deepen their understanding of modern topics in interactive technology, including applications in web technology, robotics, machine learning, visualizations etc. Suitable educational backgrounds include, but are not limited to: computer science, communications and networking, electrical engineering, automation, control engineering, robotics, computer vision, computer graphics, web technology, and interactive media. Formal eligibility criteria are the same as in the major.

In addition, the minor welcomes students from the University of Helsinki with a sufficient technical background.

**Application process:** All Aalto students with sufficient prerequisite knowledge can choose this minor. Note that this minor is technically oriented and succeeding in studies requires prior background in mathematics, computer science, and programming. Please check the prerequisites for the courses on WebOodi. When planning minor studies, please take into consideration that some of the courses may have defined limitations as to course sizes and priorities in participation. Please see course descriptions for further information.

Students of University of Helsinki: Application through the [Flexible Study Right Agreement \(JOO\)](#).

## Content and structure

Minor in Human-Computer Interaction (HCI) covers basics of the field and introduces core technical areas.

The minor consists of 25 credits in 5 courses:

<a href="#">CS-C3120</a>	Human-Computer Interaction	5 ECTS
<a href="#">CS-E4200</a>	Emergent User Interfaces	5 ECTS
<a href="#">CS-E4840</a>	Information Visualization	5 ECTS
<a href="#">ELEC-E7890</a>	User Research	5 ECTS
<a href="#">ELEC-E7851/</a> <a href="#">ELEC-D7010</a>	Computational User Interface Design/ Engineering for Humans	5 ECTS