institute of media informatics

universität ulm




Sustainability-in-Design: Reframing the Human-Technology Relationship

Background

The relationship between humans and technology is crucial in addressing the issue of electronic waste (e-waste) and reducing its environmental impact. With the rapid advancement of technology, electronic devices have become an integral part of our daily lives. However, the increasing demand for newer, faster, and more advanced devices has resulted in a growing e-waste problem. Human behaviors, such as consumerism, planned obsolescence, and improper disposal of electronic devices, contribute to the accumulation of e-waste. To effectively reduce e-waste, it is essential for humans to adopt sustainable consumption practices, extend the lifespan of electron-ic devices through repair and refurbishment, practice responsible disposal methods, and embrace circular economy principles, such as recycling and resource recovery. Additionally, technological innovations, such as design for sustainability, modular and upgradable devices, and efficient recycling technologies, can also play a significant role in reducing e-waste.

Approach

Theses in this field primarily focus on developing and evaluating interactive concepts with regards to how they influence user perception and the dynamic relationship between humans and technology. Initially, appropriate materials and methods have to be reviewed and evaluated before designing and implementing hardware/software prototypes.

Based on Bachelor or Master level the thesis will be adapted

Contact

Albin Zeqiri
Institute of Media Informatics
albin.zeqiri@uni-ulm.de
O27 3 337

Focus in this project

Hardware/Software Prototype
Material Science
User Evaluation