

Introduction to the Human-Centricity in a Sustainable Digital Economy Minitrack

Soheil Human

Vienna University of Economics and Business
soheil.human@wu.ac.at

Gustaf Neumann

Vienna University of Economics and Business
gustaf.neumann@wu.ac.at

Rainer Alt

Leipzig University
rainer.alt@uni-leipzig.de

The global digital transformation has changed many different aspects of our lives. Not only the economies and the societies, but also people's personal lives, have been influenced by this new and ever-emerging era of our history. While the digital age has made it possible to provide novel services and solutions for the end-users, it has also caused serious concerns in different individual and societal levels, such as issues regarding online privacy, algorithmic bias, fairness and accountability of information systems, transparency, governance, and explainability of information systems, end-user manipulations, fake news, traceability, etc. The development of human-centric and end-user empowering information systems can be one approach towards "digital sustainability" since they enable individuals to influence how their data is used, by whom, and for which purpose. Many novel and personalized services are emerging in this direction, which make the digital economy sustainable, i.e. a positive place that focuses on human users.

This minitrack aims to attract research that advances the understanding of human-centricity and end-user empowerment in a sustainable digital economy. As the transformation is multidimensional in nature, the minitrack adopts an interdisciplinary perspective, which considers human-centricity and end-user empowerment across application domains (e.g., software development, digital commerce, healthcare, administration, mobile apps, social media, and online services) and disciplines (e.g., economics, ecology, computer science, sociology). Among the relevant topics are:

- Characteristics and design of sustainable human-centric information systems
- Evaluation of information systems from a human-centric perspective
- Co-creation and co-production of human-centric sustainable information systems
- Analysis and design of technologies (e.g., AI, blockchain) that empower end- users

- Design of human-centric end-user agents, chatbots, AI and machine learning
- Identity, privacy and consent management systems (e.g., self-sovereign identities)
- Fairness, transparency, accountability and controllability of information systems
- Legal, social, ethical, political or economic aspects of human-centricity in information systems
- Business value of human-centric and/or user empowered solutions
- Human-centric aspects of digital nudging
- The role of platforms in digital sustainability
- Human-centricity and sustainability in platform economy, shared economy, circular economy, and digital economy
- Study of gaps, barriers, enablers, drivers, and concerns related to human- centricity and sustainability in digital systems, ecosystems, and environments
- Ubiquitous, pervasive, and/or ambient human-centricity in digital environments
- Study of human's perception, experience, or interactions in digital environments
- COVID-19's impact on human-centricity or sustainability of information systems
- Emerging AI systems for automated decision-making and text generation (such as ChatGPT) and their impact on human-centricity
- Human-centricity in cyber-physical/metaverse spaces
- Human-centricity and data management
- Human-centricity and science, such as citizen science or digital transformation in science and knowledge production or education
- Approaches affiliated with human-centricity, such as Social Welfare Computing, Life Engineering, Digital Humanism, Digital Sustainability, Human Awareness