



DASAIT 2022- Design and application of socially- aware IT

Introduction for the Special Track at the ICDS 2022- The Sixteenth International Conference on Digital Society

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Chair- Olga Levina

Olga received the diploma degree (Diplom, an equivalent of the Master's degree) in industrial engineering and management from Technical University of Berlin, Germany. She received her PhD in information systems from Technical University of Berlin in 2012. She was a PostDoc researcher and project manager at Technical University of Berlin until 2015 and at FZI Research Center for Computer Science in Berlin from 2016 until 2020.

Her research interests are focused on digital platforms, digital transformation, business processes and ethical aspects of digital transformation.

She is currently professor for business process management at the Brandenburg University of Applied Science.



Focus of DASAIT and Information Systems Research (ISR)

- ⇒ Software products are used in diverse and numerous domains in business and practise
- ⇒ Computation power is high and supports the use of calculation-intensive code development and algorithms
- ⇒ Development of software artefacts that do not only strive for mathematical precision but also consider alternatives or system users is still rare
- ⇒ Socially aware information systems (SAIS) consider user-centred design of and human-centered interaction as well as their effects beyond the direct use, i.e. the system and process environment



Socially- aware Information Systems: Research areas and questions

Design process for socially aware information systems (SAIS)

Human-centered interaction with SAIS

Incorporating ethical and social values in SAIS design

Implementing the problem awareness into the SAIS design

Design principles of socially-aware Machine-learning Systems (MLS)

Design of socially-aware MLS

Misinformation and SAIS

SAIS interaction patterns

SAIS influence on user behavior



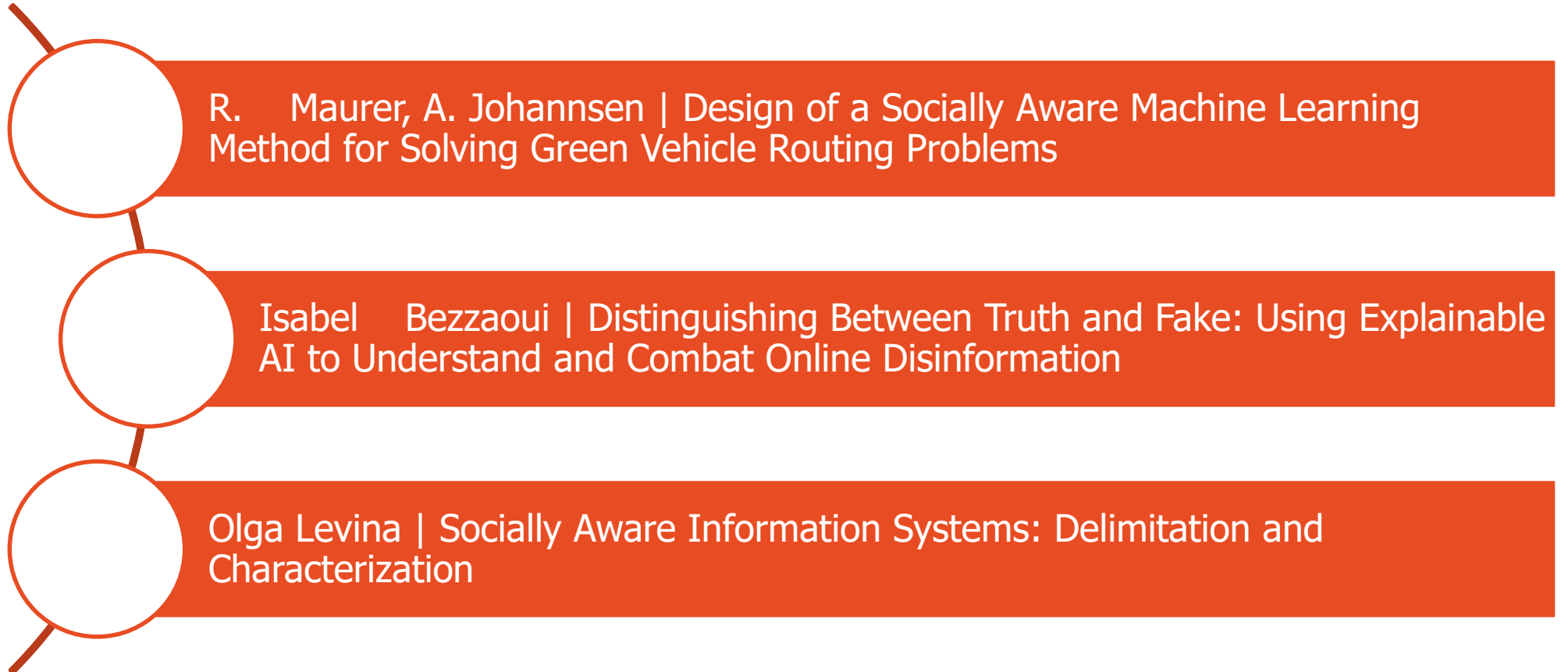
Some characteristics of SAIS design

SAIS

- Are business-problem centred
- Do not use behavioural or psychological means to elicit user data
- Consider users and the system environment from the requirement analysis on
- Do not have a personality, i.e., they do not „decide“, „detect“ or „recognize“
- Have an audit, testing and feedback mechanisms from the design on
- Have been tested in a laboratory environment or controlled conditions before market release

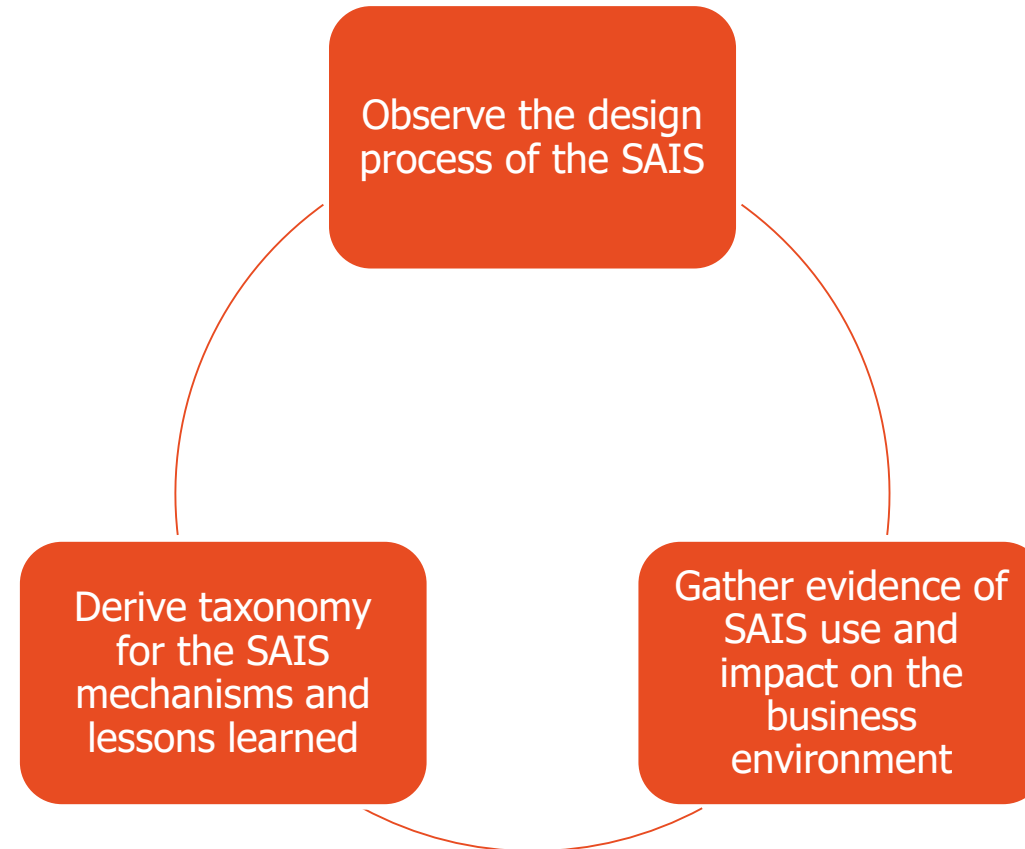


Content of the ELIDT 2022 Track





Outlook



Thank you and enjoy the talks!