How to design AI-decision support?

HCI-Outcomes of AI-interventions in decision environments

Group size: 1-4 students | Contact: Tim Schneegans (schneegans@teco.edu)

Psychological research has shown ways to efficiently combine multiple human judgments to obtain the best results. But how should we combine human and machine judgments [1]?

Challenges of AI
- Algorithmic accountability
- Ethical conflicts
- User acceptance

Outcomes of diverse AI-interventions and their visualization:
- CNN
- Logistic Regression [3]
- Random Forest
- Explainable AI [2]

User outcomes:
- Performance
- Comfort
- Acceptance

Implication
- Research at the intersection between Psychology and Technology
- Interdisciplinary team of experts in Psychology, Economics, Computer Science, and Data Science
- Preparation for a prospective Master-Thesis

References