



PRO-VE 2025

26th IFIP/SOCOLNET Working Conference on Virtual Enterprises
Hybrid Human-AI Collaborative Networks

PRO-VE 2025 Special Session

Trust and trustworthiness in hybrid human-AI collaborative networks

Scope

As AI is currently reshaping the landscape of collaborative work, hybrid human-AI networks represent a new socio-technical phenomenon that is increasingly noticeable in fields like – among others –, production and services, logistics, sales; even in education and public administration. Within those networks, acceptance, trustworthiness and trust are important pillars of understanding, support and interaction. Unfortunately, as AI-enhanced network agents constantly excel in performing tasks like pattern recognition, language processing or decision-making, they often lack individual and collective user acceptance and they still lack performance in social networking functions. This hampers their potential in the sense of adoption and trust. Despite of the far-reaching relevance of this topic, the complex effects of acceptance, trustworthiness and trust in hybrid Human-AI collaboration are still widely under-researched.

This special session invites both empirical and conceptual contributions that address trust and trustworthiness in relation to different applications, constellations and/or phases of hybrid human-AI collaboration. We encourage researchers to go beyond the scope of current knowledge and investigate more complex socio-technical trust effects related to multi-actor-multi-agent collaboration, such as the directions (uni-, multi-directional, positive, negative, mixed), dynamics (build, maintain, preserve), and methods to observe, measure, monitor, or control AI-related trust effects. Authors may relate their research to different application areas, but must apply a solid theoretical foundation. Contributions may cover, but are not limited to, the topics listed below.

Topics/ Keywords

- Design of secured human-AI collaborative work environments
- Trust management for human-AI collaboration (e.g. role and function assignments; conflict and error routines; shared mental models and cognition; reciprocity of learning)
- Trust in collaborative human-AI decision-making environments

Session Organizers

Prof. Dr. Bernd-Friedrich Voigt, South Westphalia Univ. of App. S., voigt.bernd-friedrich@fh-swf.de

Dr. Wico Mulder, TNO, wico.mulder@tno.nl

Prof. Dr. Thomas Süße, Bielefeld University of Applied Science, thomas.suesse@hsbi.de

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.

1 Mar 2025 - Special session proposal

11 Apr 2025 - Abstract submission (optional)

9 May 2025 - Full paper submission

20 Jun 2025 - Results notification

4 Jul 2025 - Camera-ready version

27-29 October 2025 - Conference

Acceptance of papers is based on the **full paper** (up to **18** pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the web site, you have to indicate the name of the special session.

Submission procedure via EasyChair available on: <http://www.pro-ve.org>, with copy by email to the chairs of the special session.