



# PRO-VE 2025

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

## PRO-VE 2025 Special Session

### Collaborative Human-AI Systems: Practical Insights and Design Implications

#### Scope

AI is increasingly shaping the way humans collaborate—whether in industrial settings, knowledge work, or decision-making processes. However, while human-centered AI aims to align AI with human values and needs, operationalizing this vision in collaborative environments remains a challenge (Capel & Brereton 2023, Friedrich et al. 2024). Questions around trust, shared agency, and augmentation are central to ensuring that AI supports and enhances rather than replaces human expertise, capabilities and agency (Berente et al., 2022, Schmitt 2024).

This session explores how AI can be designed to foster effective human-AI collaboration, with a focus on practical methodologies, frameworks, and case studies. We invite contributions on topics such as:

- AI as a collaborative partner: How AI systems influence human workflows, interactions, and knowledge exchange (Puerta-Beldarrain et al. 2025, Le et al. 2024)
- Trust and explainability: Designing AI systems that enhance user confidence and facilitate smooth collaboration (Shneidermann 2020)
- Shared decision-making: Approaches for integrating AI into hybrid teams without diminishing human autonomy and agency (Fuegener et al. 2021, Raees et al. 2024)
- Resilience and sustainability: How AI-driven collaboration can strengthen socio-technical systems (Zinke-Wehlmann 2024, Zinke-Wehlmann et al. 2022)
- Exploring augmentation: Investigating AI's potential to enhance human problem-solving, creativity, and adaptability in collaborative work settings (Jia et al. 2024, Shao 2024)
- Multi-Agent Systems in Collaborative Networks: Understanding how distributed AI agents interact with human stakeholders, coordinate tasks, and adapt to dynamic environments in industrial and organizational ecosystems (Acharya et al. 2025, Xu et al. 2024)

Recent research (Berente et al., 2022) highlights the tension between automation and augmentation, raising the question of how AI can best support human agency in complex work environments. This session aims to advance the debate on human-AI collaboration by focusing on practical insights and design implications, moving beyond theoretical discussions toward real-world implementation.

#### Session Organizers

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#### Topics/ Keywords

- Human-centered AI
- Human-AI collaboration
- AI ethics
- Human-centered digital transformation
- Sustainable AI

#### 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)



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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.

**Special Session Sponsored by the Competence Center KMI at the Institute of Applied Informatic at the Leipzig University.**

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