

Hybrid Human-AI Collaborative Networks

PRO-VE 2025

PRO-VE

26th IFIP/SOCOLNET Working
Conference on Virtual Enterprises

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Important dates

- Special session proposal:
1 Mar 2025
- Abstract submission:
11 Apr 2025
- Full paper submission:
9 May 2025
- Results notification:
20 Jun 2025
- Camera ready:
4 Jul 2024

General chair:

- Antonio Lucas Soares

Program chair:

- Luis Camarinha-Matos, Portugal

Program co-chairs:

- Angel Ortiz-Bas, Spain
- Xavier Boucher, France

Artificial Intelligence (AI) is deeply transforming working modes, creating new opportunities to accomplish a wide variety of operational tasks through the synergy of human expertise and artificial intelligence. In an interconnected economy, where collaboration is increasingly emphasized as a cornerstone of progress, the design, support, management, and supervision of hybrid human-AI collaborative networks present significant scientific challenges across organizational, management, and technological levels.

The 25 years of scientific expertise developed by the PRO-VE community in designing and managing collaborative networks provide a solid foundation for building hybrid collaborative intelligence. The multidisciplinary nature of the science of collaborative networks enables tackling a broad spectrum of organizational and technical challenges, each requiring thoughtful consideration and innovative solutions. On the technical side, key challenges include achieving effective human-AI integration, scaling AI systems, and fostering trust. Organizationally, it is crucial to address the need for skills development, manage change effectively, and establish robust governance frameworks. Successfully balancing these challenges while adhering to ethical standards is essential for ensuring long-term success and sustainability.

PRO-VE 2025 is a forum for sharing and discussing current developments and experiences regarding the role of collaborative networks in the age of synergic intelligence between humans and AI. Contributions are invited from multiple and diverse disciplines such as Computer Science, Engineering, Management and Social Sciences.

Topics

- Digital platforms for hybrid collaborative systems
- Collaborative networks in a digital world
- Solutions for distributed cognition in collaborative systems
- Collaboration in untrustworthy environments
- Collaborative cognitive cyber-physical systems
- Interoperability between human expertise and AI systems
- Scalability and adaptability of hybrid collaborative networks
- Agile design and management of hybrid networks
- Human-machine collaboration for agile processes
- Collaboration between human and AI teams
- Digital twins for adaptable collaborative networks
- Complex hybridization of collaboration – organizations, people, machines, intelligent systems
- Collaboration and Sustainability
- Resilience & antifragility of hybrid networked organizations
- Ethics, security, & trust in hybrid collaborative networks
- AI integration for logistics and transportation networks
- AI for Collaborative risk and crisis management
- Society 5.0 and collaborative networks
- CN applications and case studies in multiple fields

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