PRO-VE 2026 Special Session

From Collaboration to Cognition: The Collaborative Intelligence Network

Scope

This special session explores the emergence of Collaborative Intelligence Network (CIN), human–machine ecosystems in which collaboration evolves into shared cognition. Within these hybrid systems, humans, intelligent agents, and digital entities are interconnected as a collective brain, continuously co-creating ideas, making joint decisions, and adapting through distributed intelligence.

The session positions CINs as a new stage in the evolution of collaborative networks and Industry 5.0 organizations, integrating insights from collective intelligence, cognitive systems, and socio-technical design. It invites research on architectures, protocols, and governance models enabling cognitive interoperability between humans and artificial agents. Innovative facets include hybrid cognitive architectures, neuro-cyber collaboration, swarm-level coordination, emergent decision-making, and human-centric ethics in co-creative ecosystems.

By bridging organizational science, artificial intelligence, and cognitive technologies, this session aims to define the conceptual and technological foundations for enterprises and communities that think, learn, and innovate collectively, where collaboration becomes cognition.

Session Organizers

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Topics/ Keywords

- AI and hybrid intelligence for collective cognition
- Cognitive computing and collaborative network architectures
- Neuro-cyber interfaces and brain–computer collaboration
- Cobots and creative robotics in CINs and Hive Networks
- Computational creativity and affective computing
- Distributed cognition, cybersecurity, trustworthiness, and safety
- Human-centric and ethical co-creation in CINs
- Privacy, transparency, and explainability
- Skills, trust, empathy, and cognitive alignment
- Governance and accountability in hybrid ecosystems
- Adaptive organizational structures for CINs
- Business models for human–machine value co-creation
- Leadership and decision processes in hybrid enterprises
- Collective learning and innovation ecosystems
- Socio-economic and labour implications of hybrid intelligence
- Hybrid Human-AI policy and regulation development for CINs

Submission procedure

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

10 Apr 2026	Abstract submission (optional)
8 May 2026	Full paper submission
19 June 2026	Results notification
3 July 2026	Camera-ready version
26-28 October 2026	Conference

Acceptance of papers is based on the **full paper** (up to **16** pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the web site, you have to select 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.