PRO-VE 2026 Special Session

AI as Human Mediator in Hybrid Networks: Engineering Approaches

Scope

Hybrid Collaborative Networks (HCNs), involving organizations, individuals, intelligent systems, and digital platforms, are increasingly central to value creation in globally distributed ecosystems. In such environments, collaboration evolves over time: roles shift, coordination patterns transform, and governance structures adapt. This special session explores AI as a human mediator - AI systems intentionally designed not merely to automate tasks, but to structure and regulate interactions between human actors within hybrid collaborative networks. We aim to analyse how such mediating AI systems influence the emergence, evolution, and reconfiguration of collaborative structures. Beyond conceptual reflection, the session emphasizes the engineering of AI mediators as a design challenge. We welcome contributions addressing architectures, multi-agent and generative approaches, computational models of interaction dynamics, adaptive governance mechanisms, simulation environments, and empirical evaluations assessing their impact on coordination, resilience, and collective performance. In particular, we encourage submissions focusing on the "Engineering of Mediation," including the design of Generative AI systems, Cognitive-Architectural frameworks, and low-code toolkits that enable the rapid prototyping of human-AI mediation mechanisms. Contributions must move beyond generic human–AI collaboration perspectives and explicitly demonstrate how AI systems act as mediating mechanisms within evolving socio-technical networks. In alignment with PRO-VE standards, submissions should maintain a strong computer science and systems grounding.

Session Organizers

Raksmey PHAN (PhD), Mines Saint-Etienne, LIMOS CNRS UMR 6158, raksmey@phan@mines-stetienne.fr
Juanqiong GOU, School of Economics and Management Beijing Jiaotong University, jqgou@bjtu.edu.cn

Topics/ Keywords

- Architectural Design of AI Systems Acting as Human Mediators in Hybrid Networks
- Formal and Computational Models of AI-Mediated Coordination Dynamics
- Multi-Agent and Generative AI Approaches for Mediation in Hybrid Networks
- AI-Mediated Role Reconfiguration and Adaptive Governance Mechanisms in Hybrid Networks
- Simulation and Digital Twin Frameworks for Evaluating AI-Mediated Network Reconfiguration
- Computational Cognitive Modeling of Human Expertise in AI-Mediated Networked Workflows
- Human-AI Interaction Design for AI-Mediated Collaborative Decision-Making in Hybrid Networks
- Configurable Low-Code Frameworks for Designing AI Mediation Mechanisms in Hybrid Networks
- Evaluation Metrics and Experimental Protocols for AI Mediation Performance

Submission procedure

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.

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