PRO-VE 2023

24rd IFIP/SOCOLNET Working Conference on Virtual Enterprises

Resilient and Responsible Collaborative Networks

PRO-VE 2023 Special Session

Managing Responsibility in collaborative Human-Agent Systems

Scope

The dynamically growing dissemination, implementation and usage of artificially intelligent agents (AI-agents) in professional collaborative work environments and beyond contributes to the increasing relevance of the question about how the newly emerging human-agent systems (HAS) can be managed more responsibly. We refer to HAS as a specific form of socio-technical systems in which humans and AI-agents engage in flexible relationships in order to achieve individual and collective goals. Despite the great range of features and potentials HAS can provide for businesses and future societies, e.g. in processes of collaborative and more sustainable decision making, the fact that these social systems are open by design creates a number of novel challenges which, in this special session, should be addressed more explicitly from the perspective of responsible management. In general, these challenges of HAS can be attributed to three dimensions: a) to the so-called technical domain of designing and engineering HAS as open systems, b) to the so-called social domain of collaborative and collective behaviour as well as c) to the results, performances or outputs generated by HAS. With regard to management of responsibility we refer to responsibility as a distinct management approach that aims to achieve multi-facet objectives contributing to overall sustainability goals in collaborative networks, particularly along the three dimensions of social, ecological and economic sustainability.

Thus, with the notion of managing responsibility in collaborative human-agent systems of this special session, we invite empirical as well as conceptual contributions that have a focus on at least one of the three named dimensions of managing HAS responsibly. Integrative contributions that have a focus on all three dimensions or even beyond are very welcome, too. We see a growing field of applications of collaborative networks, e.g. in health care, manufacturing, sales & services, logistics, transportation, education etc. Thus, we are looking forward to gathering a mix of contributions with specific reference to these or other fields of application. A mix of theoretical studies, empirical insights and applied cases would allow us to move forward in establishing research based best practices in AI-integrating collaborative networks.

Based on the above outline this special session is aiming to provide an interdisciplinary platform for researchers and professionals with the objective to share and discuss latest experience, novel insights and explorations that address the above outlined topic. We are as well inviting innovative approaches and critical reflections about the mutual relationship between Humans and AI. Thus, with this special session we also seek to contribute to a better understanding about how to manage and open up Human-AI boundaries responsibly in order to enable and support further enhancement of sustainability of collaborative networks. In particular, we are looking for contributions that consider, but are absolutely not limited to, the following managerial, moral, ethical, legal challenges and more:

- Transformation of collaborative practices in socio-technical systems like HAS
- Human factors and human-agent teaming in HAS with a specific focus on responsibility
- Decision-making in AI-integrating collaborative networks
- Structural, procedurals or contextual drivers and inhibitors of responsibility within HAS
- Designing of HAS for shared and/or distributed responsibility
- Redesigning HAS for improved responsibility
- Evaluating HAS (i.e.. KPIs / KPI frameworks for responsibility)

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Topics/ Keywords

- Human factor in collaborative networks
- Human-AI collaboration
- Human-AI boundaries
- Collaborative Socio-Technical (Work) System
- AI-based agents & systems for collaborative networks
- Collaborative Human-Agent Systems (HAS)
- AI-supported decision making
- Human-AI interface design
- Human-AI performance

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.
Abstracts submission: March,27th, 2023
Full papers submission: April, 24th, 2023
Results notification: June, 5th, 2023
Camera ready: June 19th, 2023

Acceptance of papers is based on the **full paper** (up to **12** 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.