PRO-VE 2021

Smart and Sustainable Collaborative Networks 4.0
22nd IFIP Working Conference on Virtual Enterprises
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www.pro-ve.org

Saint Etienne, France
Unesco City for Design

PRO-VE 2021 Special Session

Digitalization strategy in collaborative enterprises' networks

Scope

In the 4th industrial revolution age, many digital technologies are offered to companies (Industrial IoT, Automation & Robotics, Big Data & Analytics, Cloud computing, Smart & Cloud manufacturing, Smart product, Computer vision, etc.). Companies try to follow the move because they are aware of digitalization benefits and surrounded by partners that ask them to digitize. However, due to the multitude of digital technologies and the efforts to spend when deploying new technology, companies struggle to know how far to go in digitalization and when such a process should be done by themselves or through external partnerships. Companies, and particularly SMEs who have limited resources, are lost: they don't know where to go since that digitalization costs, requires efforts to deploy changes in work practices, and has sustainability impacts. The literature has shown that they can also engage in SMEs ecosystems to better cope with such challenges. However, even then, they may not know how to engage, why to engage, and with whom to engage for the digital transformation.

What could be a feasible digitalization for a SME to meet the requirements of its collaborative network while reducing deployment efforts and sustainability impacts? Considered SMEs can be the central company of the network or supporting large companies within the network.

The session aims to explore approaches, case studies and results from digitalization efforts when moving towards digital enterprises' networks.

Session Organizers

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Topics/ Keywords

- Digitalization approaches: how to define digitalization needs, how to define digitalization perimeter, how to select ICTs, contribution of artificial intelligence for decision making, digitalisation project management, change management
- Impacts or contributions of digitalisation on the network (external impact): which new partners to go beyond digitalisation, impacts on relationships with traditional partners, digitalisation scope, impacts on relationships' performance
- Impacts or contributions of digitalisation on the company (internal impact): value creation, industrial performance, company's image, standards compliance, well-being at work, resilience, etc.

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.
Short abstracts submission (100-150 words): March,15th, 2021
Full papers submission: April, 16th, 2021
Acceptance Notice: May, 31st, 2021
Camera Ready Submission: June, 20st, 2021

Acceptance of papers is based on the **full paper** (up to **8** 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 available on: www.pro-ve.org, with copy by email to the chairs of the special session.