



PRO-VE 2021

Smart and Sustainable Collaborative Networks 4.0

22nd IFIP Working Conference on Virtual Enterprises

2021, 22 -24th November

www.pro-ve.org



PRO-VE 2021 Special Session Submission

Knowledge transfer and accelerated innovation in FoF

Special Session sponsored by DigiFoF European program (<https://digifof.eu/>)

Scope

The implementation in the factories of the future of the concepts related to digital technologies, including Internet of Things, Cyber Physical Systems, Robotics, Artificial Intelligence, Smart manufacturing, Computer vision, Collaborative work from multiple perspectives and collaborative innovation bring a lot of added-values contributing to the 4th industrial revolution. Factories of the Future (FoF) aim at clear performance increases (improved efficiency; increased productivity, flexibility, agility and machine availability; low production cost; lower IoT security risks, etc.), while inducing an in-depth transformation of skills and competencies (New digital skills, Increase of workers competence levels, Higher expertise on data security, New capabilities on big data and artificial intelligence) which contributes to a profound transformation of industrial business model.

To support such transformation, knowledge transfer from Education Institutions towards industrial companies is essential. Mediated by the High Education Institution study programs and digital ecosystems advances, digital platforms like OMILAB laboratories have the roles to teach and train the collaborative work of human-robot-teams to successfully tackle transfer of knowledge and change of skills to support factories of the future innovations.

The objective of this session is to gather a set of international papers which highlights both digital FoF platforms and educational efforts and technological solutions for overcoming the Industry 4.0 challenges.

Session Organizers

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Topics/ Keywords

- Digital platforms for knowledge transfer on 4.0 technologies: Smart manufacturing, Internet of Things, Cyber Physical Systems, Robotics, Artificial Intelligence
- Supporting the deployment of FoF by knowledge transfer digital solutions
- Educational challenges and advances in the context of Industry 4.0
- Supporting FoF transition by education and skills enhancement

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.