International Conference on Services and Industry of the Future, ICSIF2023

Call for paper-special session

Smart applications and new trends for a connected industry of the future

Session chair :
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The industry of the future comes to accelerate the modernization of the industrial tool, in the context of the deployment of new technologies. It is not just a question of deploying sensors, cobots or innovative tools, but above all a major push towards the digitalization of industrial sectors. The industry of the future is the catalyst for the revolution of the industrial model, changing the structuring and interactions for an excellent agility in the factory. This can only be achieved through better use of technology and data, for better integration in the industrial ecosystem.

Collaborative robots, artificial intelligence, energy challenges (renewable energy and decarbonization), the internet of things, big data, virtual reality, blockchain and advanced technological tools must work together to reshape the industrial model. They constitute an opportunity to improve the attractiveness of different industrial applications. As for the impact of this evolution on a country's economy, several examples show that modernizing and digitalizing industry contributes, in a significant and sustainable way, to the improvement of the economy. The Chinese and Japanese models illustrate the virtues of this industry of the future on their economic strategy.

This special session will provide an opportunity for researchers from academia and industry to present their latest achievements in the industry of the future. ICSIF'2023 will provide a high-level international forum for scientists, researchers, industry professionals and students to present cutting-edge research results, address new challenges and discuss trends in the smart and digital industrial field. Unpublished research papers are invited, topics of interest include, but are not limited to :

- Digital manufacturing
- Industrial automation, process control and manufacturing process
- Autonomous Control and Fuzzy Logic applications
- Complex System modeling and intelligent controller design
- Failure detection and identification
- Digitalization of health and its applications
- Maintenance 4.0
- VR/AR for industrial application
- E-Learning and smart university applications
- Industrial Internet of Things
- Cyber-Physical Systems
- Real-time systems
- Circuit, System, integrated circuit design, integrated system
- Big Data for industrial applications
- Artificial intelligence
- Architecture of intelligent robots
- Perception, navigation, and control of intelligent robots
- Intelligent teleportation
- Image processing and robot vision
- Advanced manufacturing
- Smart and future green buildings
- Smart energy management for industry